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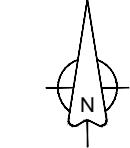
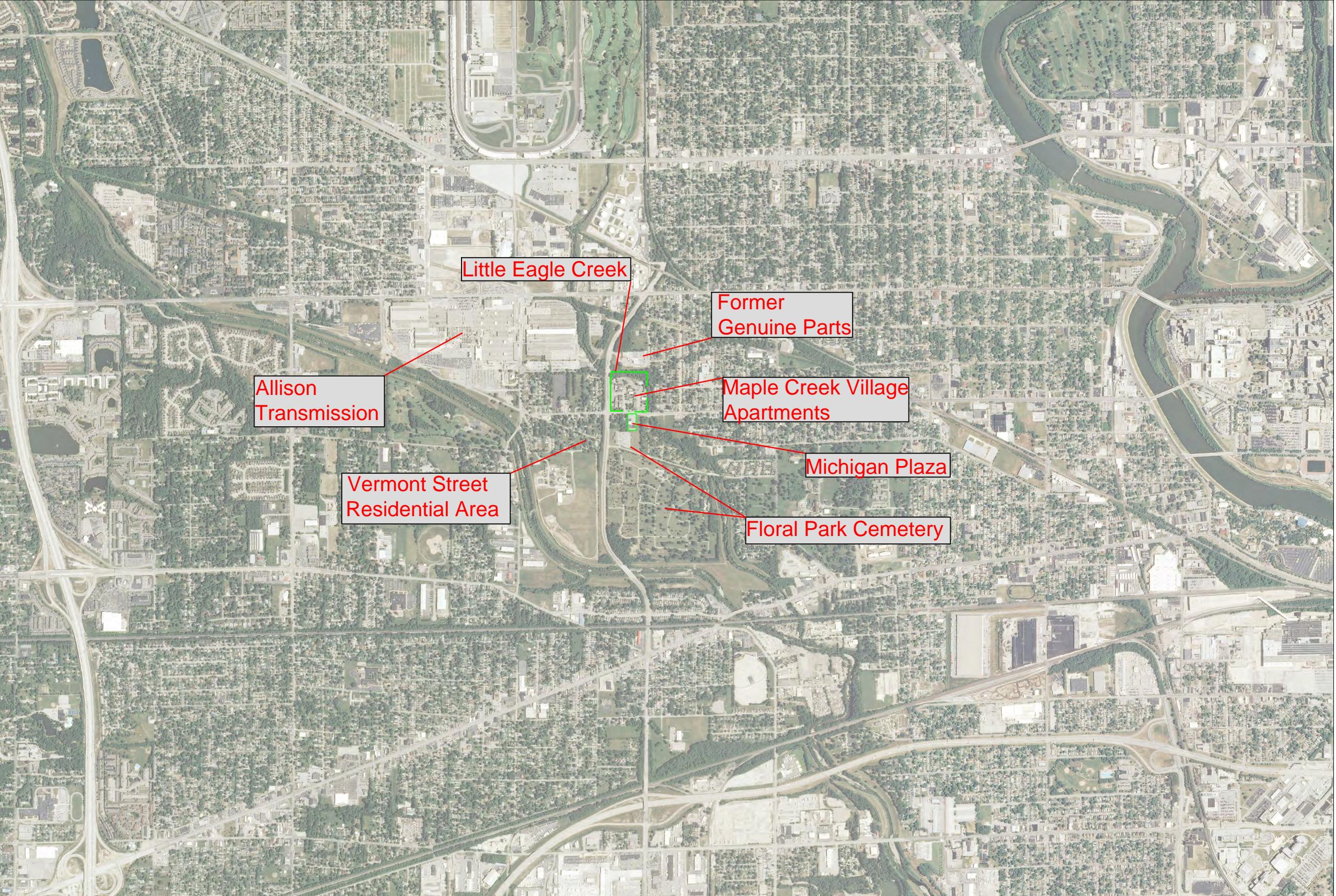
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0' 1000' 2000'

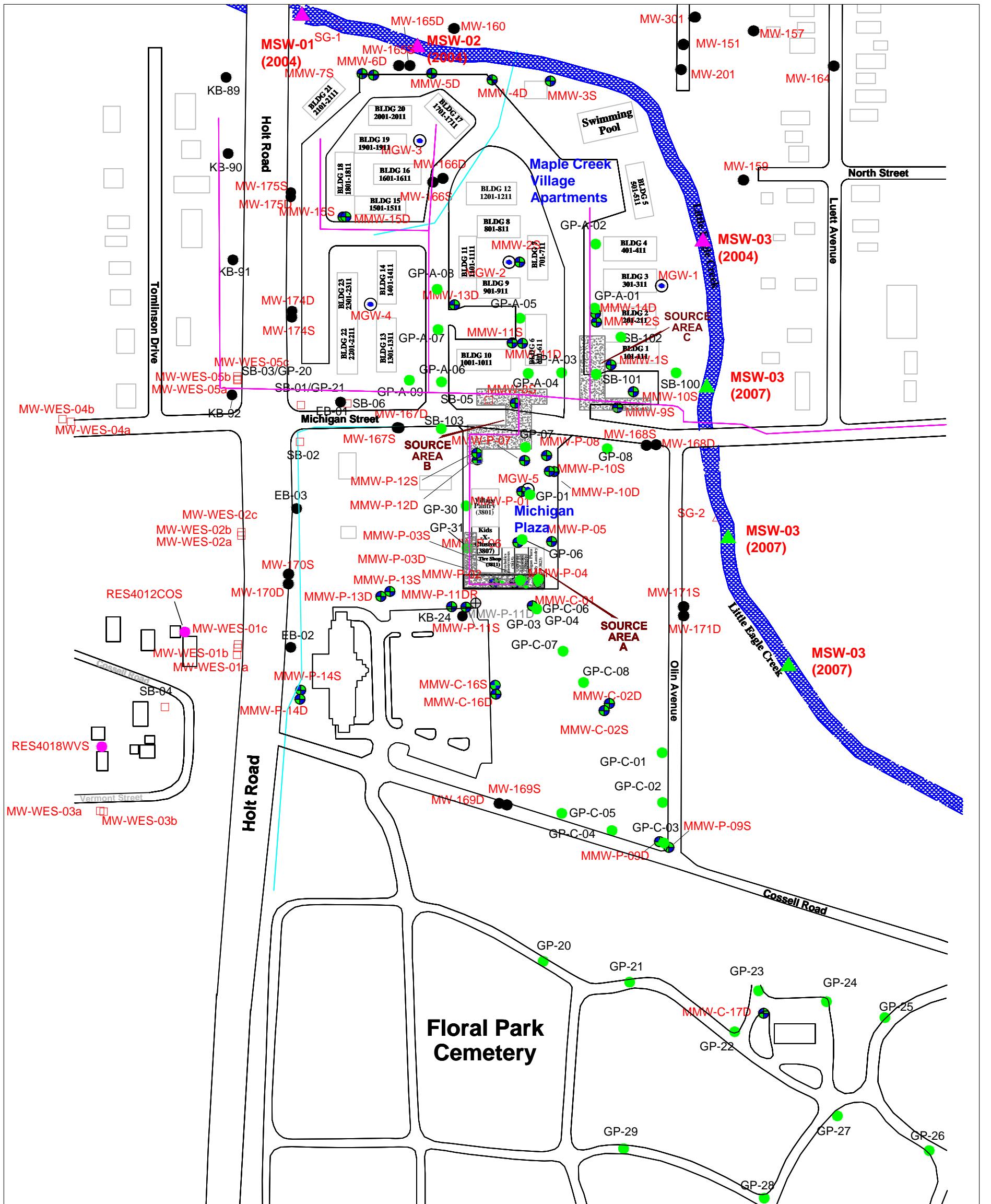
LEGEND



Site Area

VICINITY MAP	
MICHIGAN PLAZA 3801-3823 WEST MICHIGAN STREET INDIANAPOLIS, INDIANA 46222	

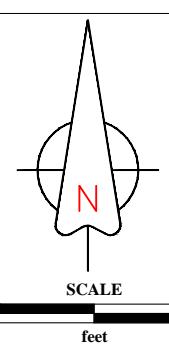
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LEGEND

- | | | | | |
|--------------------|---|-------|---|---------------------------------------|
| | Fence | GP-29 | ● | Soil Boring |
| MMW-P-06 | MUNDELL Monitoring Well | | — | Sanitary Sewer |
| MW-160/
KB-90 | ENVIRON Monitoring Well/Soil
Boring | | — | Storm Sewer |
| W-WES-O1A/
3-02 | U.S. EPA Monitoring Well/Soil
Boring | | ● | Residential
Drinking Water
Well |
| SG-1 | Stream Gauge Location | | ▲ | Surface Water
Sample Location |
| MGW-O1 | MUNDELL Soil Gas Well | | ◆ | |

**Note that soil borings were advanced adjacent to monitoring wells MMW-8S, MMW-9S, MMW-10S, MMW-11D, MMW-13D, MMW-14D, MMW-P-02, MMW-P-03D, MMW-P-04, MMW-P-07, MMW-P-08, MMW-P-09D, and MMW-P-10D in March and July 2013.



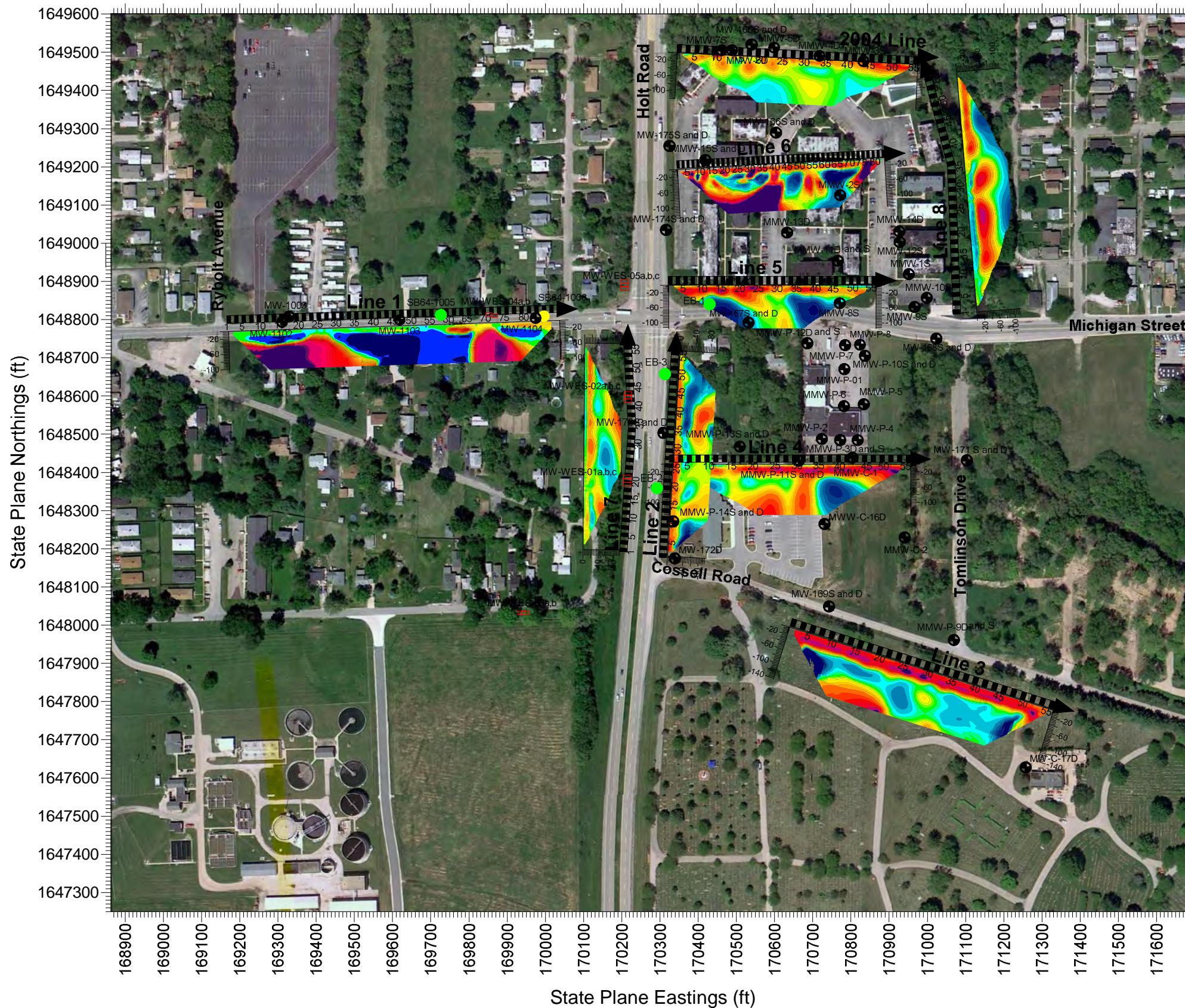
ENVIRON/Keramida/EPA
Monitoring Well Locations Referenced
from December, 2011 EPA Survey.

Project Number:
M01046
Drawing File:
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Date Prepared:
03-11-13
Scale:
1"=200'

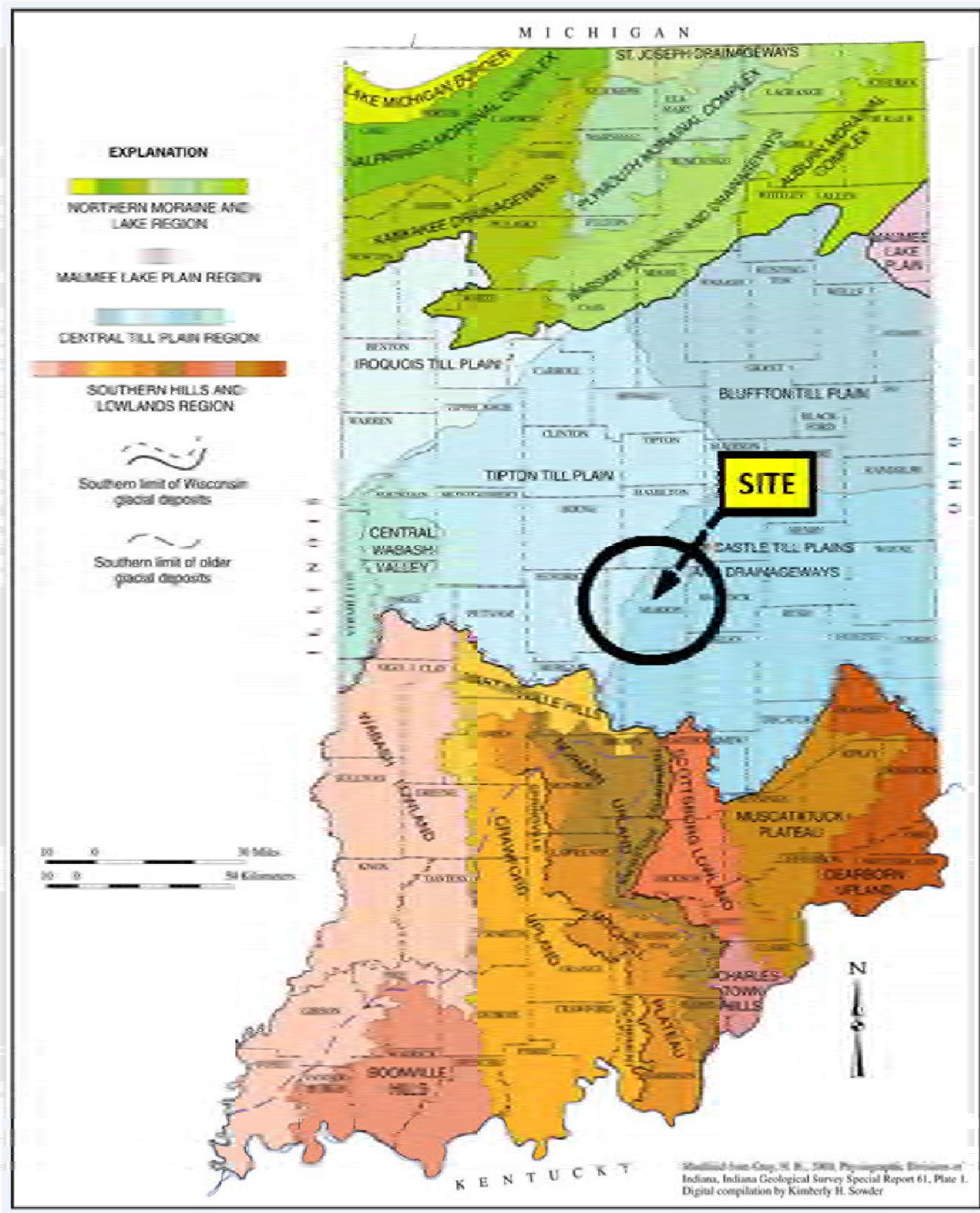
SITE PLAN

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 2a



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					CHECKED BY: GJH	DATE: 09/13/13
					APPROVED BY: JAM	DATE: 09/13/13



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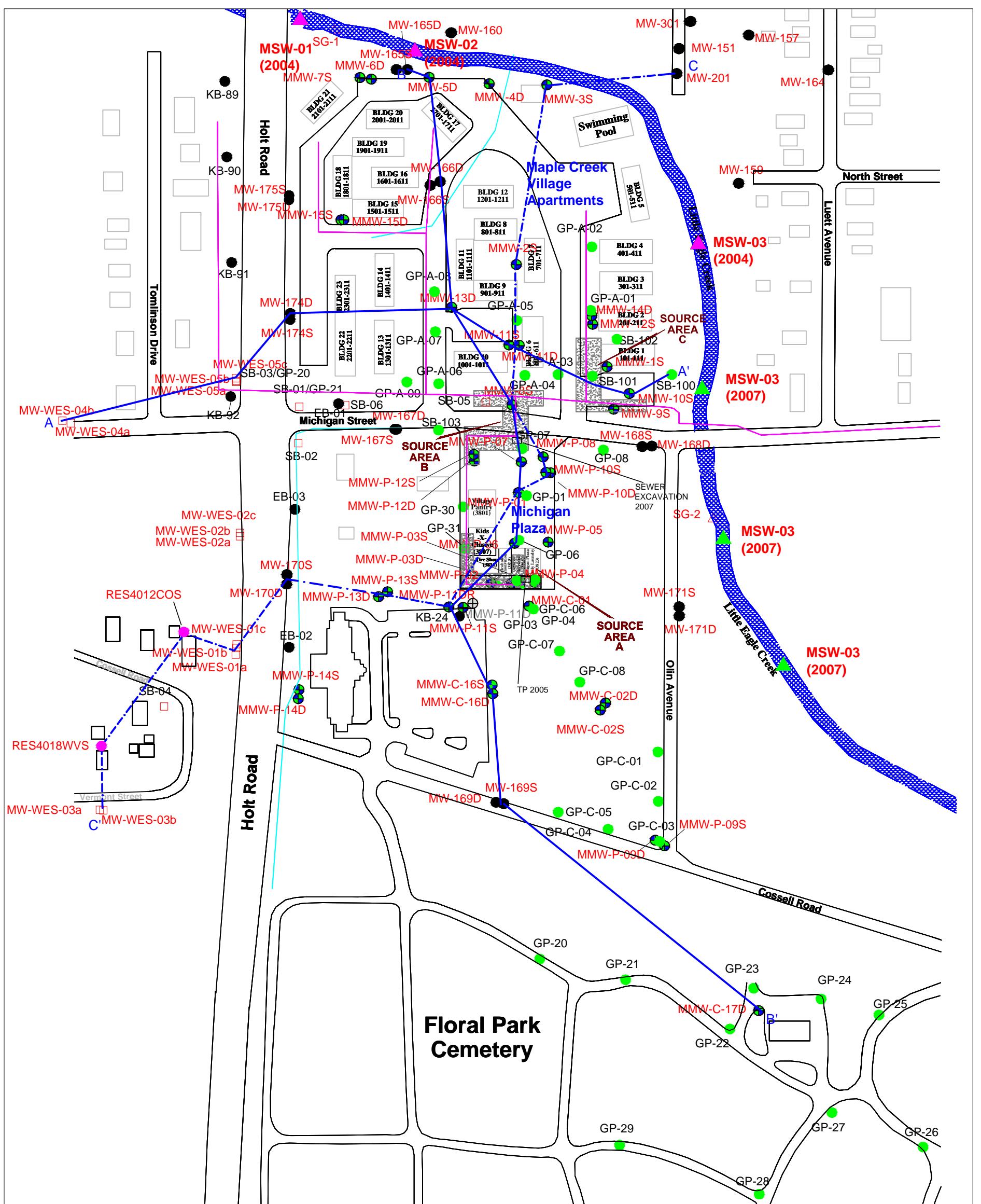
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09/17/13
Scale:
As Shown

Physiographic Regions of Indiana

Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

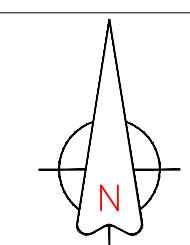
FIGURE

3



LEGEND

- Fence
- MMW-P-06 ● MUNDELL Monitoring Well
- MW-160/ KB-90 ● ENVIRON Monitoring Well/Soil Boring
- MW-WES-O1A/ SB-02 □ U.S. EPA Monitoring Well/Soil Boring
- SG-1 △ Stream Gauge Location
- MGW-O1 ○ MUNDELL Soil Gas Well
- GP-29 ● Soil Boring
- Sanitary Sewer
- Storm Sewer
- Residential Drinking Water Well

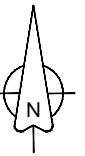


0 SCALE 200
feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

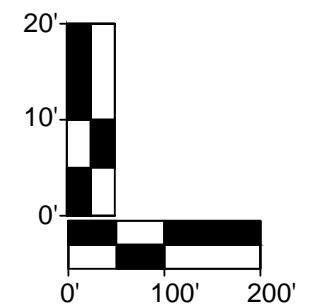
CROSS SECTION TRANSECT LINES
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
4

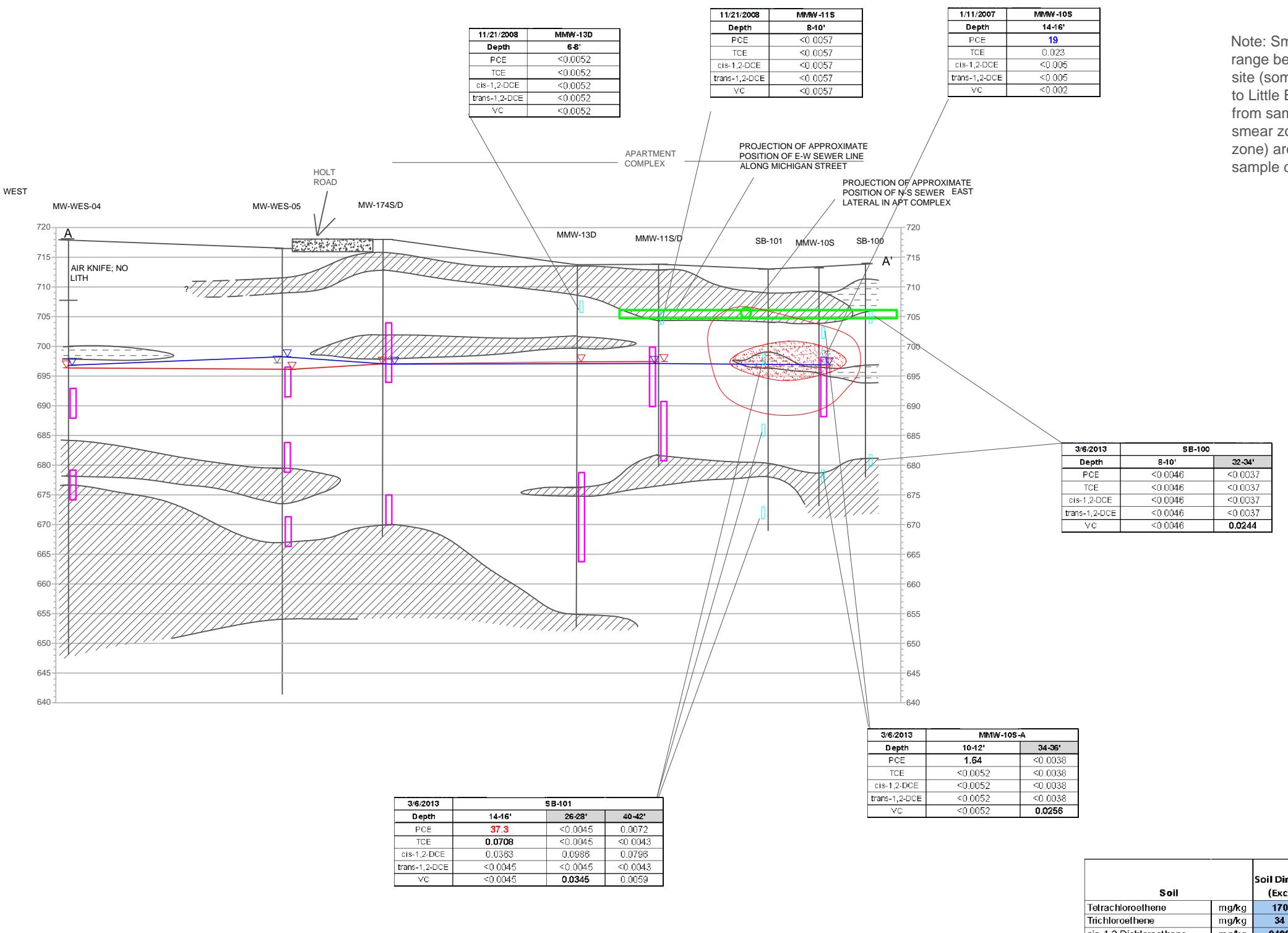


LEGEND

	Sand
	Clay
	Silt
	Shale (Bedrock)
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (intermediate EPA well if present)
	Static Water Level 11/12/2012 (Deep)
	Soil - MTG Exceedance
	Soil - Direct Contact Exceedance



Note: Smear zone soils typically range between 16-19 ft-bgs across site (somewhat shallower adjacent to Little Eagle Creek). Soil results from samples collected below the smear zone (in the saturated soil zone) are highlighted in gray in sample depth header.



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REV.

DATE

DESCRIPTION

BY

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PROJECT NO.: M01046 FILE NO.: Cross-Sections.dwg

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DRAFTED BY: MB DATE: 09/11/2013

CHECKED BY: MB DATE: 09/17/2013

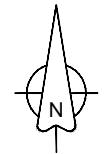
APPROVED BY: JAM DATE: 09/17/2013

GEOLOGIC CROSS-SECTION A - A'

MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

FIGURE

5



LEGEND

Sand



Clay



Silt



Monitoring Well Screen Interval



Static Water Level
11/12/2012 (Shallow)



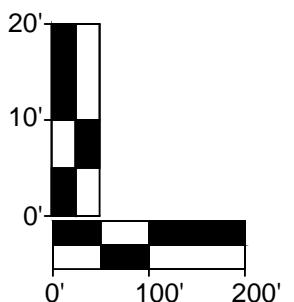
Static Water Level
11/12/2012 (Deep)



Soil - MTG Exceedance



Soil - Direct Contact
Exceedance



Note: Smear zone soils typically range between 16-19 ft-bgs across site (somewhat shallower adjacent to Little Eagle Creek). Soil results from samples collected below the smear zone (in the saturated soil zone) are highlighted in gray in sample depth header.

11-21-2006 MMW-13D	
Depth	6'-8'
PCE	<0.0052
TCE	<0.0052
cis-1,2-DCE	<0.0052
trans-1,2-DCE	<0.0052
VC	<0.002

1/11/2007 MMW-08S	
Depth	14'-15'
PCE	11
TCE	0.018
cis-1,2-DCE	<0.005
trans-1,2-DCE	<0.005
VC	<0.002

1/11/2007 Sewer Site	
Depth	4' - 9'
PCE	0.0057
TCE	0.0054
cis-1,2-DCE	<0.005
trans-1,2-DCE	<0.005
VC	<0.002

3/7/2013 MMW-P-02-A	
Depth	12'-14' & 20'-22'
PCE	0.118
TCE	<0.0049
cis-1,2-DCE	<0.0049
trans-1,2-DCE	<0.0049
VC	<0.0049

STRIP MALL
BUILDING

PROJECTION OF APPROXIMATE
POSITION OF SEWER LINE FROM
MICHIGAN PLAZA TO MICHIGAN
STREET MAIN

PROJECTION OF SB-03 IN
DRYCLEANER
SPACE

PROJECTION OF
MMW-P-02/A

SB-13

MICHIGAN
PLAZA

MMW-06

MMW-P-07

MMW-08S

MMW-13D

MW-165D

MMW-05D

MW-166S/D

MMW-11S/DR

MMW-C-16S/D

MW-169S/D

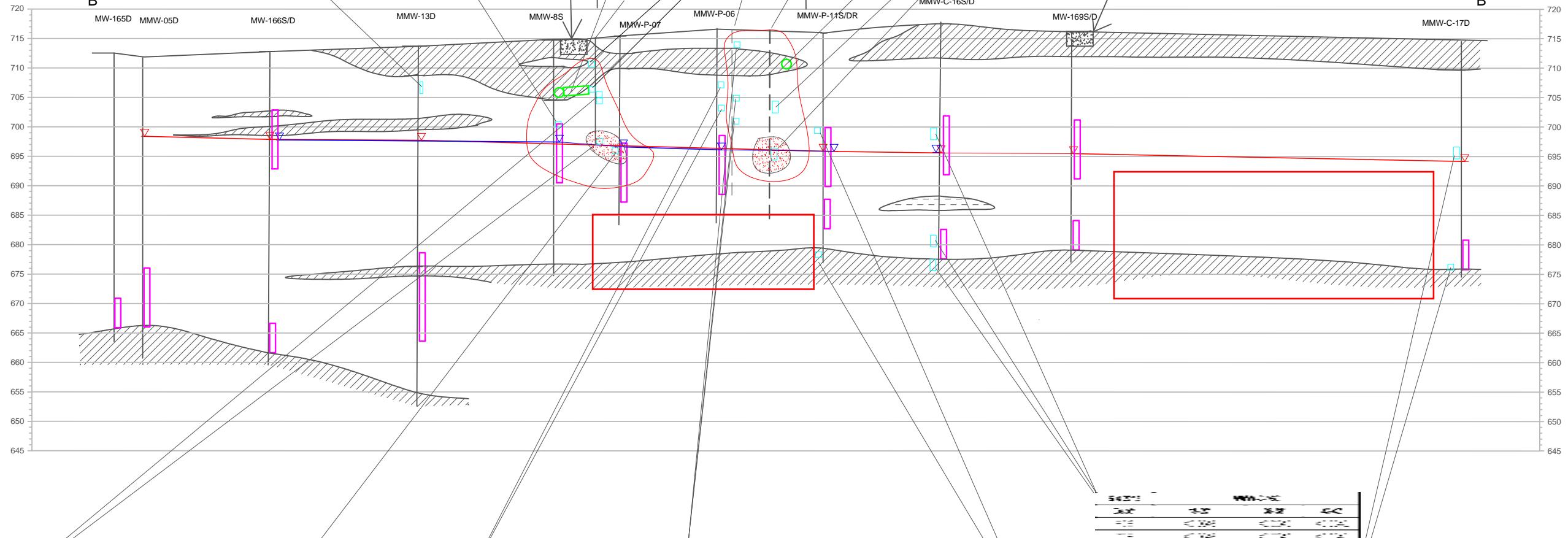
MMW-C-17D

COSSELL
ROAD

B'

SOUTH

NORTH



2/3/2009 SB-13			
Depth	9'-10'	10'-11'	17'-18'
PCE	1.41	1.64	55
TCE	0.0452	0.0557	0.105
cis-1,2-DCE	0.0325	0.0458	0.831
trans-1,2-DCE	<0.0055	<0.0054	0.0081
VC	<0.0055	<0.0054	0.246

1/11/2007 MMW-P-07		
Depth	19'-20'	
PCE	26	
TCE	0.12	
cis-1,2-DCE	0.064	
trans-1,2-DCE	0.0074	
VC	<0.002	

5/29/2005 SP-06 MMW-P-06		
Depth	5'-6'	13'-14'
PCE	<0.005	<0.005
TCE	<0.005	<0.005
cis-1,2-DCE	<0.005	<0.005
trans-1,2-DCE	<0.005	<0.005
VC	<0.002	<0.002

5/29/2005 SP-06 MMW-P-06		
Depth	5'-6'	13'-14'
PCE	<0.005	<0.005
TCE	<0.005	<0.005
cis-1,2-DCE	<0.005	<0.005
trans-1,2-DCE	<0.005	<0.005
VC	<0.002	<0.002

5/11/2011 MMW-P-11D		
Depth	15'-17'	20'-22'
PCE	<0.005	<0.005
TCE	<0.005	<0.005
cis-1,2-DCE	<0.005	<0.005
trans-1,2-DCE	<0.005	<0.005
VC	<0.002	<0.002

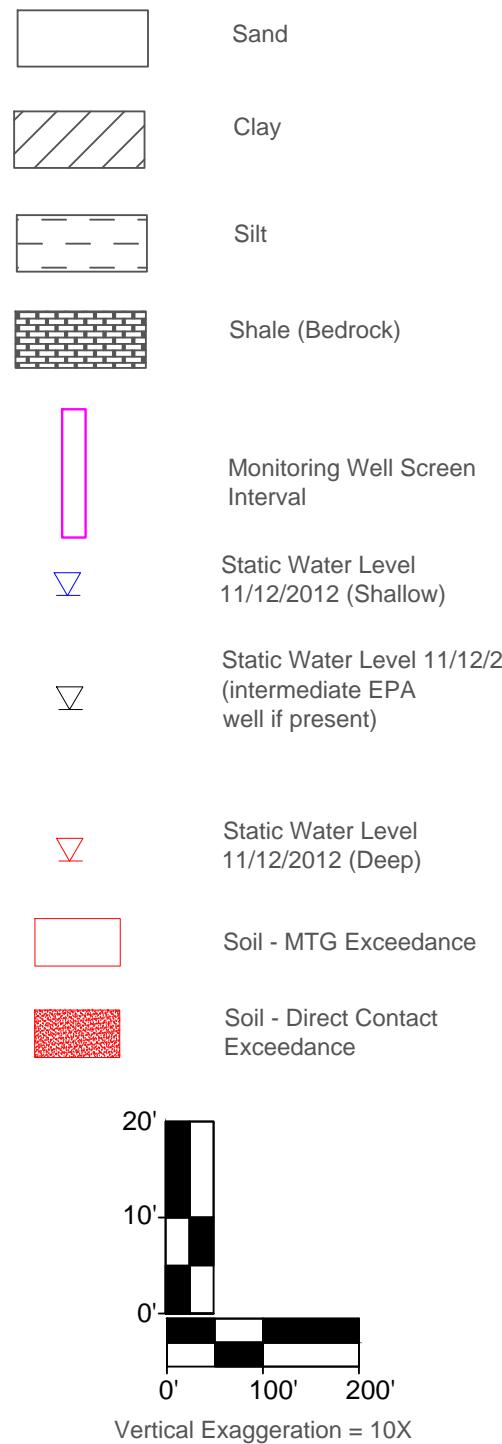
5/5/2012 MMW-C-17D		
Depth	14'-15'	20'-22'
PCE	<0.005	<0.005
TCE	<0.005	<0.005
cis-1,2-DCE	<0.005	<0.005
trans-1,2-DCE	<0.005	<0.005
VC	<0.002	<0.002

FIGURE
6

GEOLOGIC CROSS-SECTION B - B'
MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA



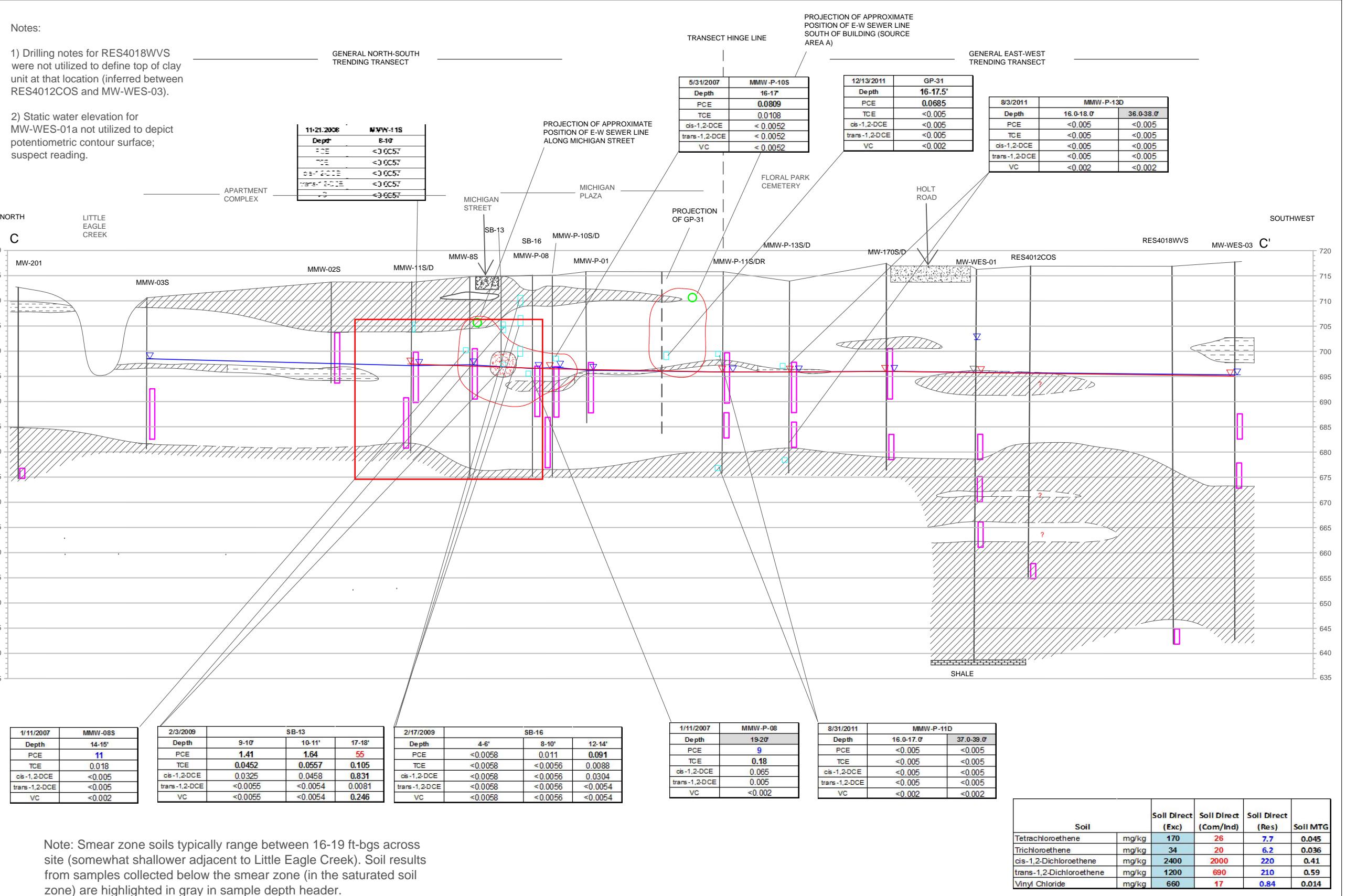
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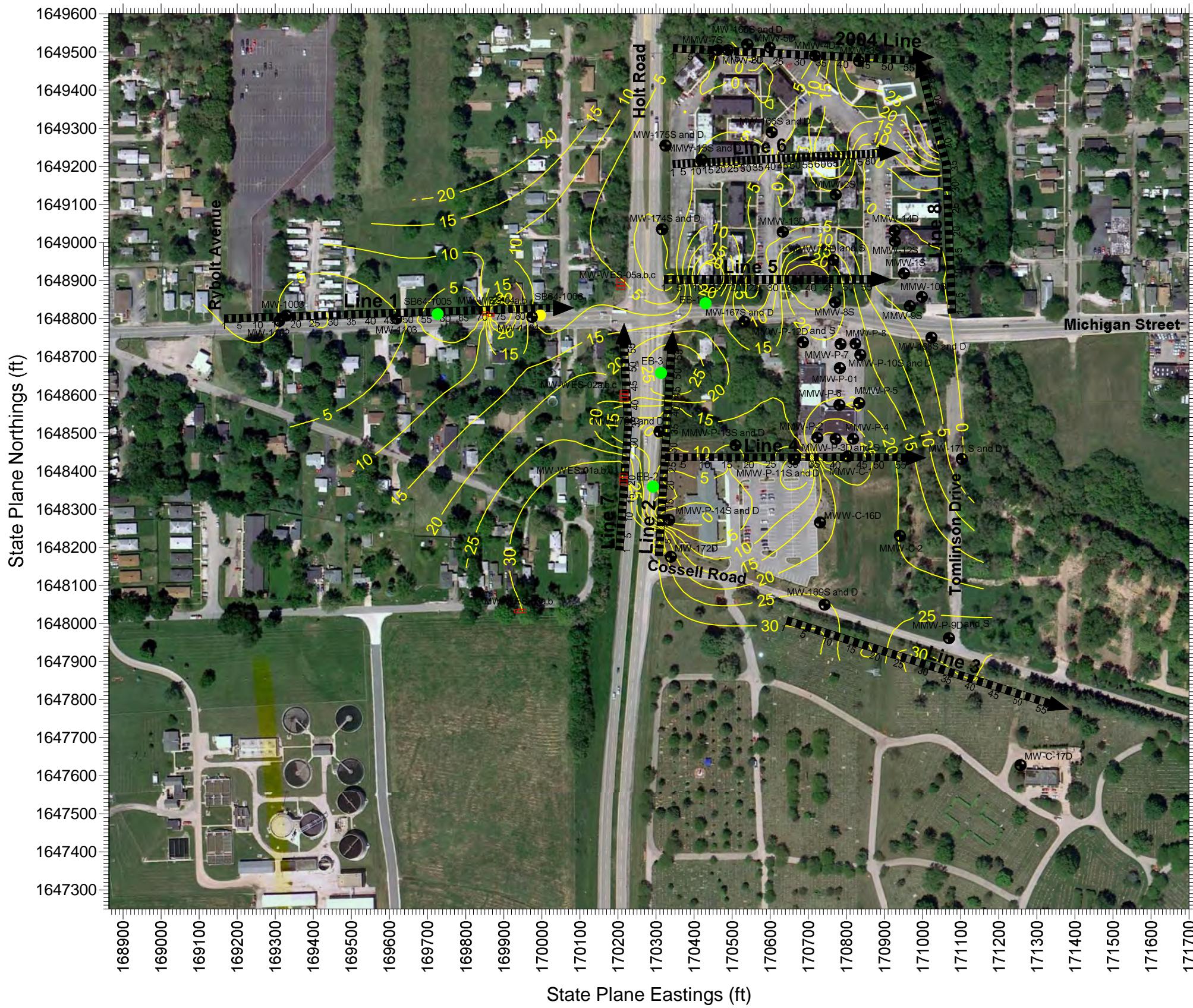


Notes:

1) Drilling notes for RES4018WVS were not utilized to define top of clay unit at that location (inferred between RES4012COS and MW-WES-03).

2) Static water elevation for MW-WES-01a not utilized to depict potentiometric contour surface; suspect reading.





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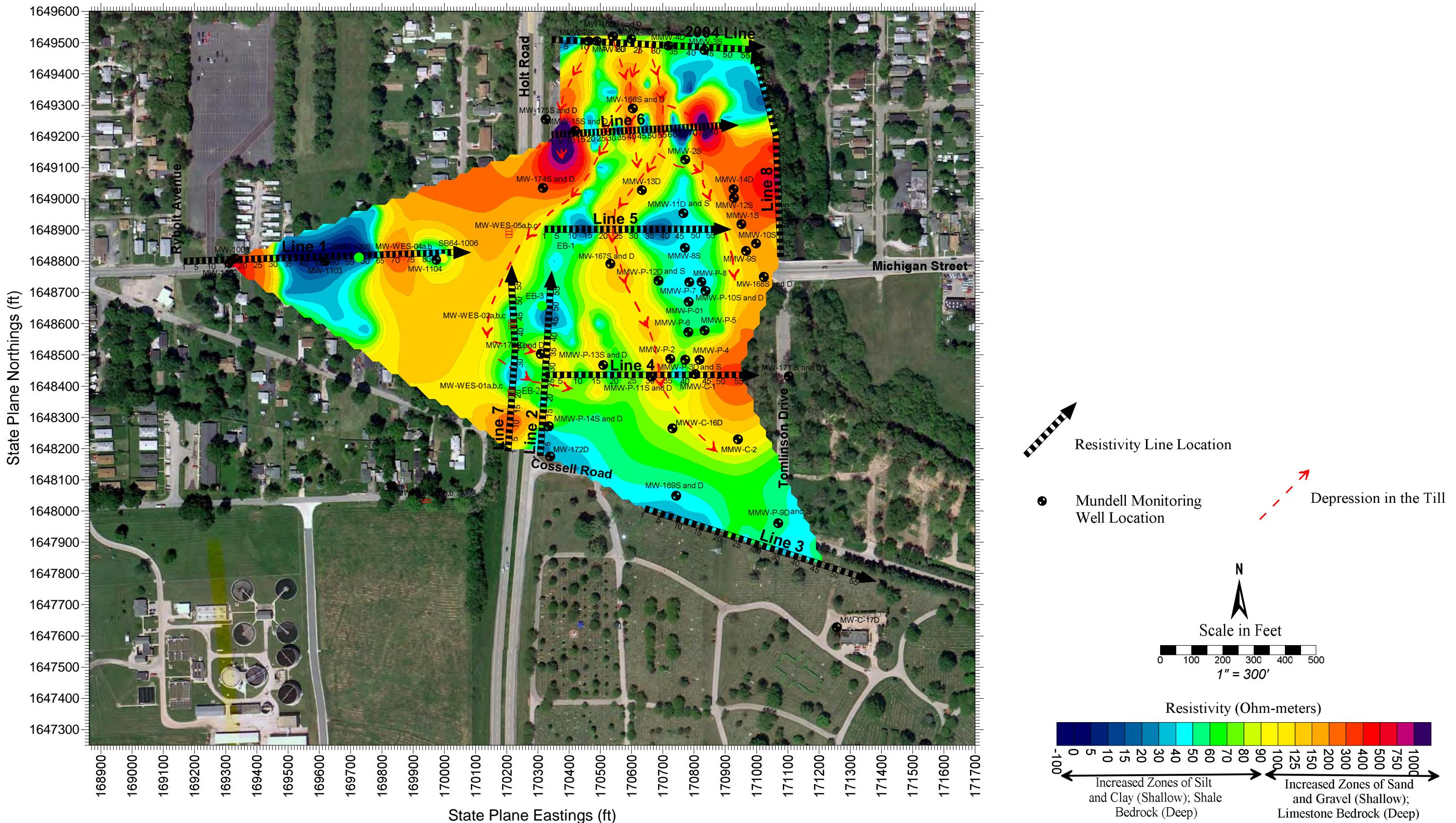
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INC						

Till Thickness Isopach Map (Borings and Geophysical Data)

Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE 8



 Mundell Consulting Professionals
for the Earth and the Environment

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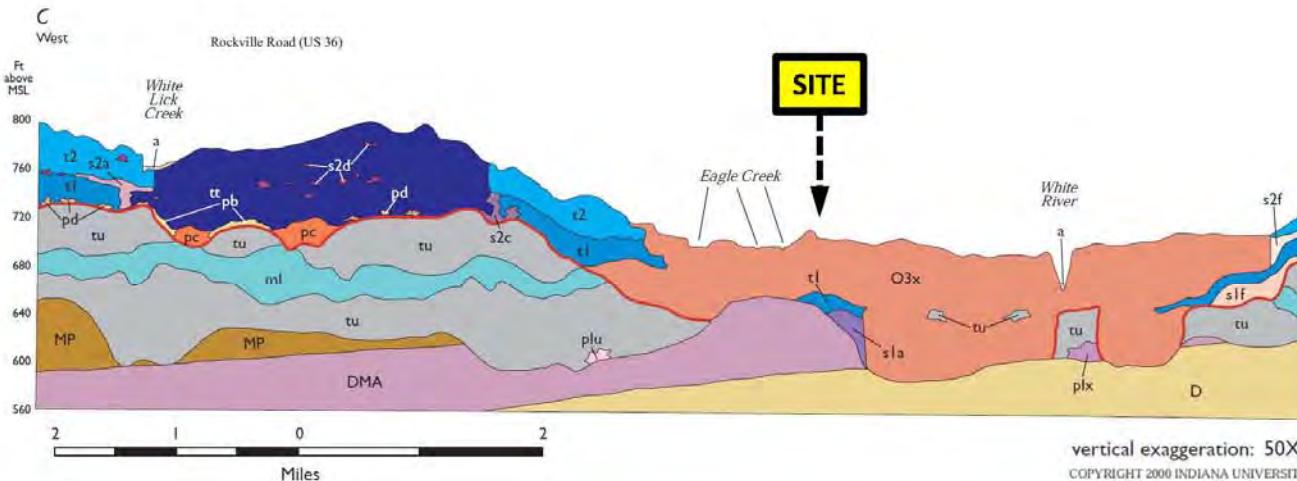
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Resistivity Slice Map (670 Ft. Elevation)

Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE 9



Late Wisconsin Deposits: Upper Sequences

t2 Upper till sequence. Till and till-like sediment deposited by the East White Sublobe of the Huron-Erie Lobe. In most places the unit is generally composed of soft to very stiff, mildly overconsolidated pebbly loam or sandy loam. Lenses of sand and silt are abundant within and atop the unit in northern Marion County but are less common to the south.

Surficial Sand and Gravel Units

O3x Thick composite bodies of sand and gravel in sluiceways and terraces. The unit typically consists of late Wisconsin outwash that has coalesced with much thicker exhumed fans, aprons, and channels of Wisconsin and (or) pre-Wisconsin age.

Late Wisconsin Deposits: Lower and Total Sequences

t1 Lower till sequence. Till and till-like sediment deposited by the East White Sublobe of the Huron-Erie Lobe. In most places the unit is generally very stiff to hard, strongly overconsolidated loam, silt loam, or sandy loam having abundant pebbles and widely scattered lenses of sand and silt.

Buried Sand and Gravel Units Below the Lower Till Sequence

s1a Sand and gravel in small sheets, aprons, and channels at or near the base of the lower till sequence. These bodies probably represent ice-proximal outwash deposited during the initial advance of late Wisconsin ice.

Bedrock Geology

DMA New Albany Shale (Devonian and Mississippian Systems). Grey, brown, and black shale. Minor calcareous shale and argillaceous limestone near base of unit.

D Muscatatuck Group (Devonian System). Chiefly crystalline limestone and lesser calcareous shale. Sandy dolomite (Geneva Member) at base (not mapped separately).

Hydrogeologic Framework of Marion County, Indiana
Geologic Cross Sections
by
Steven E. Brown and Anthony H. Fleming
2000

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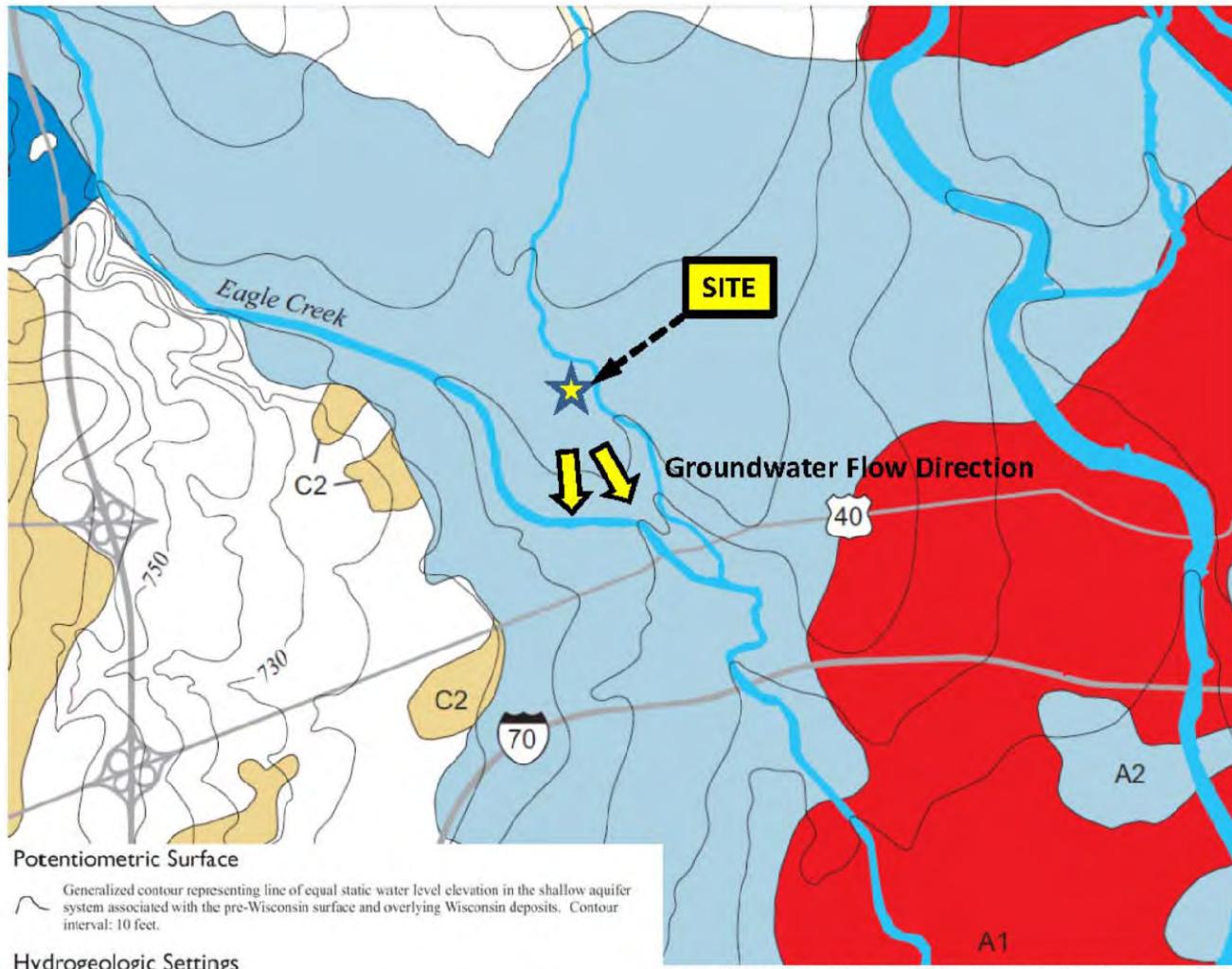


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CHECKED BY:	MEB	DATE:	09/17/13
APPROVED BY:	JAM	DATE:	09/17/13

Geologic Summary Map
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE
10



SITE LOCATION

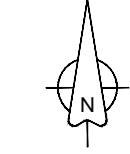
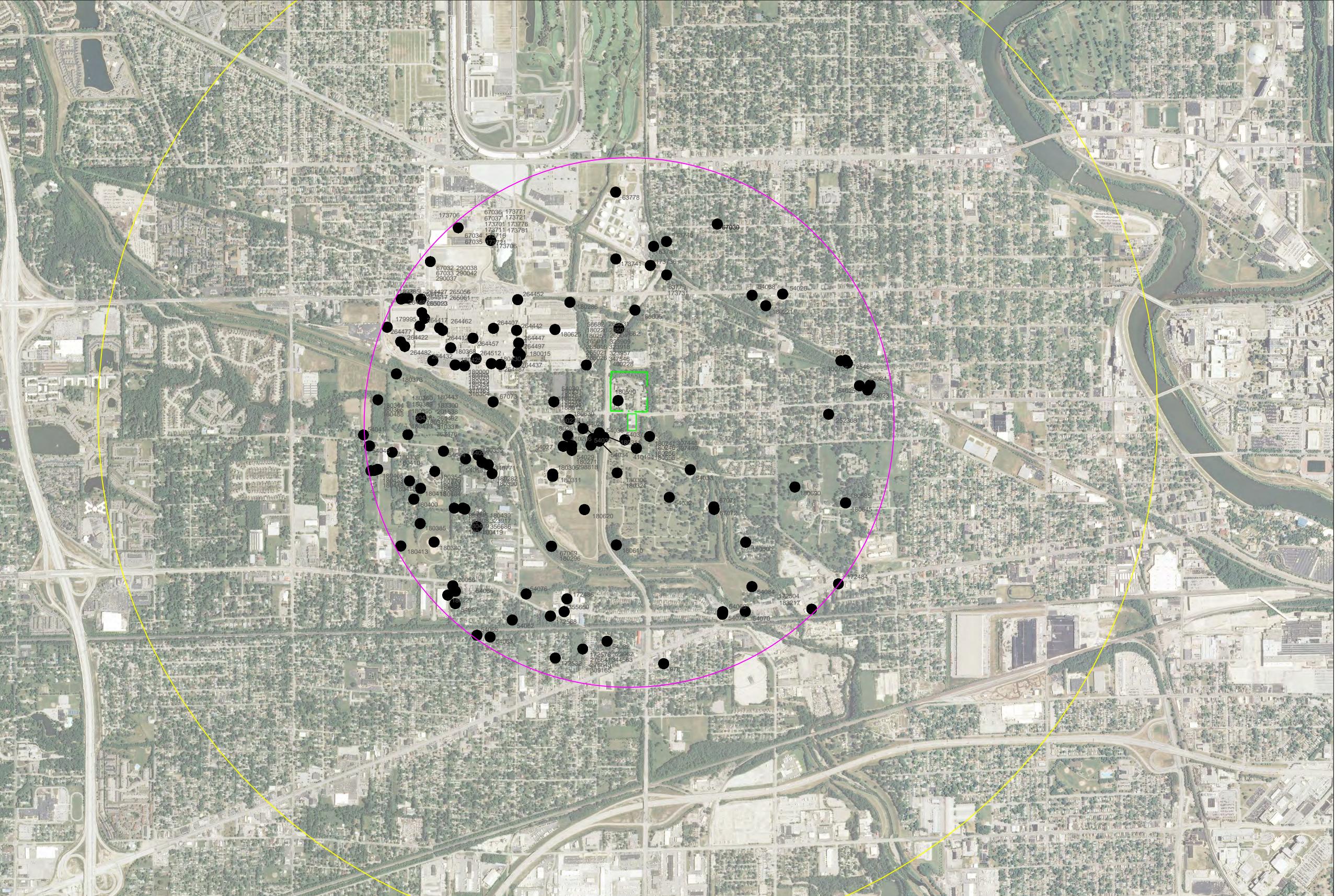


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CHECKED BY:	MEB	DATE:	09/17/13
APPROVED BY:	JAM	DATE:	09/17/13

Hydrologic Settings Map
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE
11



0' 1000' 2000'

LEGEND

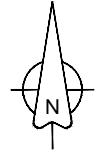
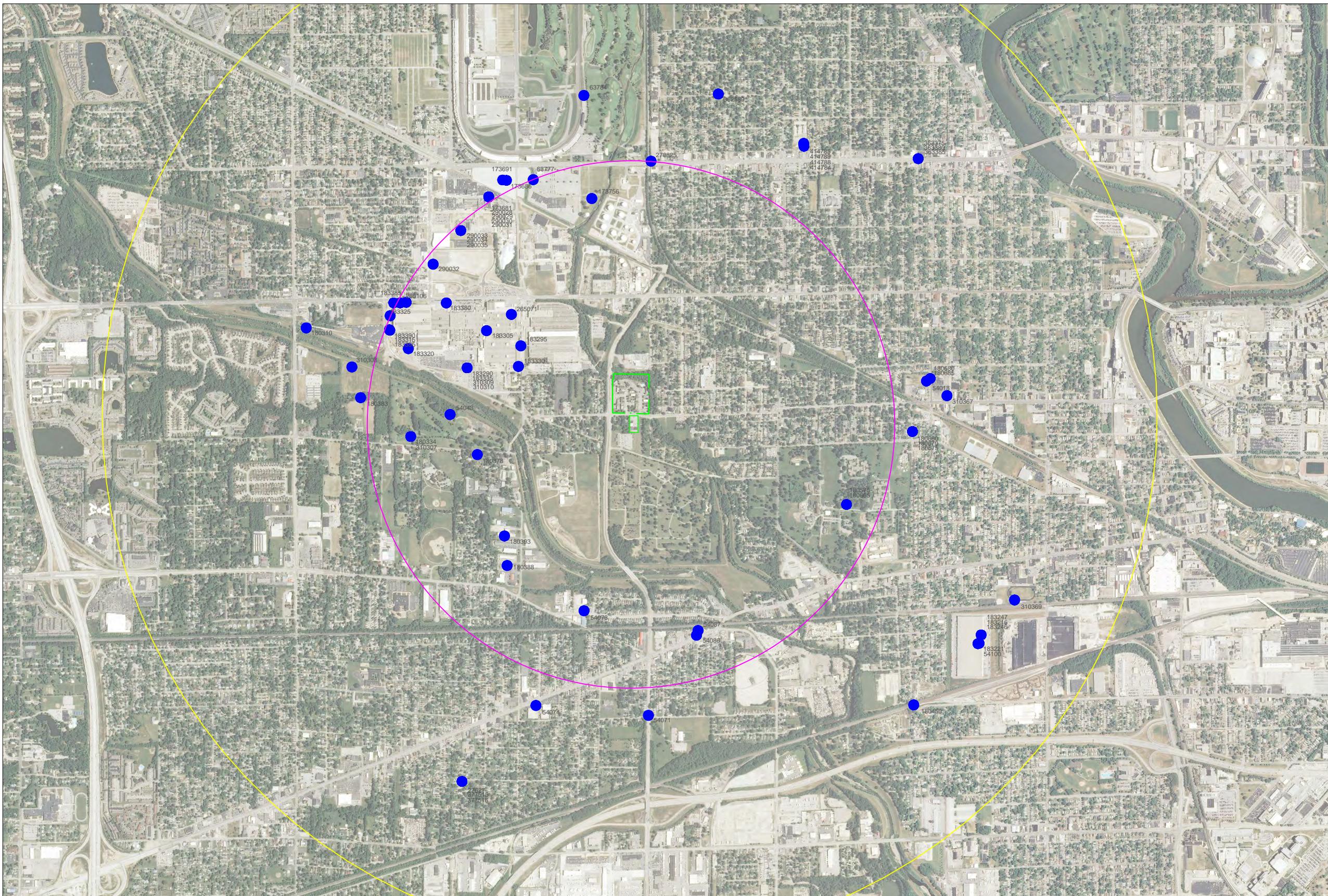
● Low Capacity Wells

● High Capacity Wells

□ Site Area

1 Mile Radius

2 Mile Radius



LEGEND

-  **Low Capacity Wells**
 -  **High Capacity Wells**
 -  **Site Area**
 -  **1 Mile Radius**
 -  **2 Mile Radius**



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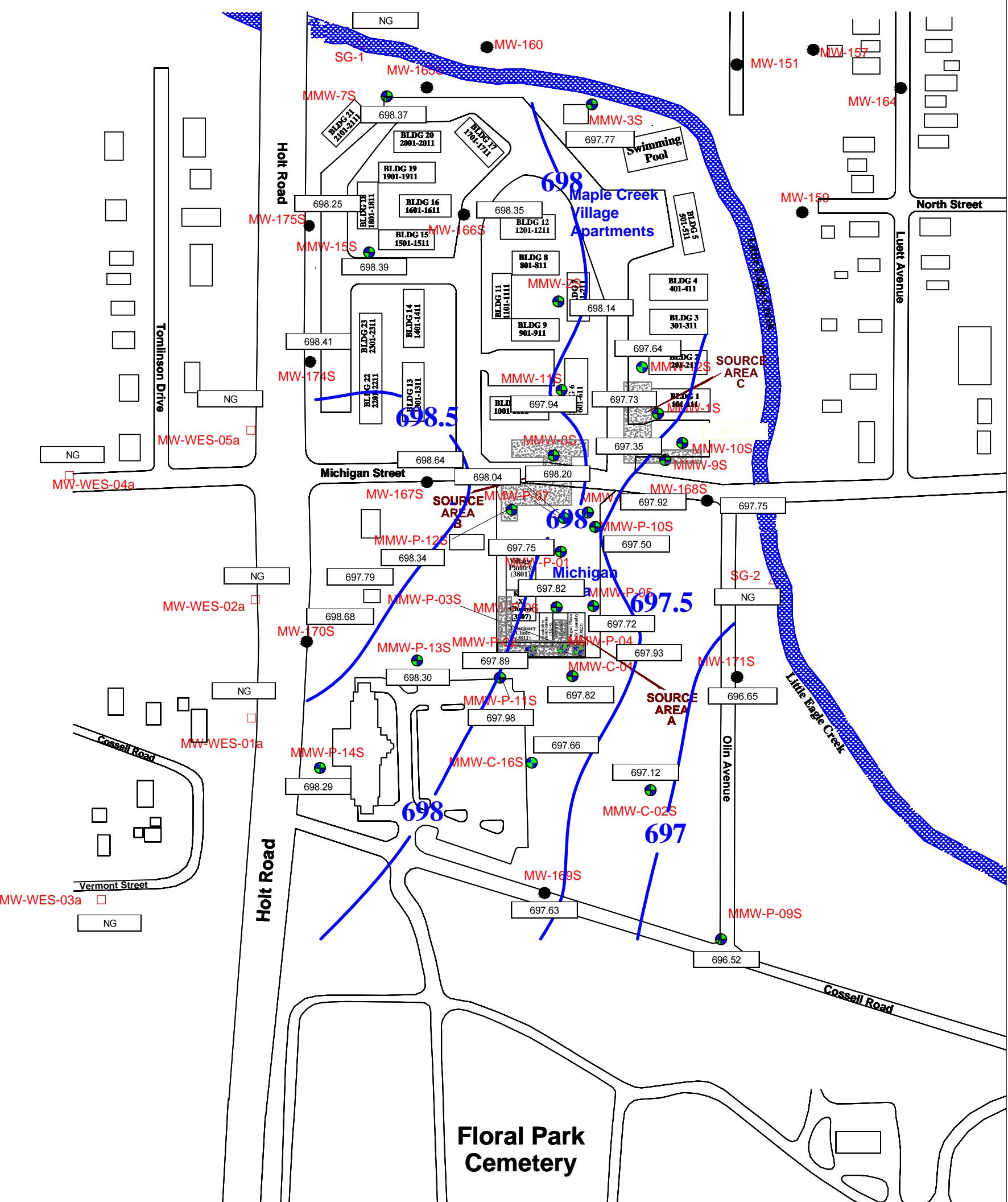
110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065
www.MundellAssociates.com

REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	F
					DRAWING:	P
					DRAFTED BY: SG	DA
					CHECKED BY: MEB	DA
					APPROVED BY: MEB	DA

**IDNR WELL MAP -HIGH CAPACITY
WELLS**

FIGURE

13



LEGEND

MMW-P-06 ● MUNDELL Monitoring Well

NG = Not Gauged

MW-160 ● ENVIRON Monitoring Well

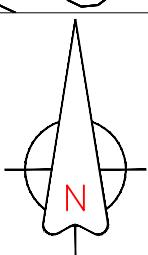
696.68 Static water elevation (ft-MSL)

MW-WES-O1A □ U.S. EPA Monitoring Well

695.64 Static water elevation not used to contour potentiometric surface map.

SG-1 △ Stream Gauge Location

697.5 Potentiometric Surface
Equipotential Lines Contour
Interval = 0.5 feet



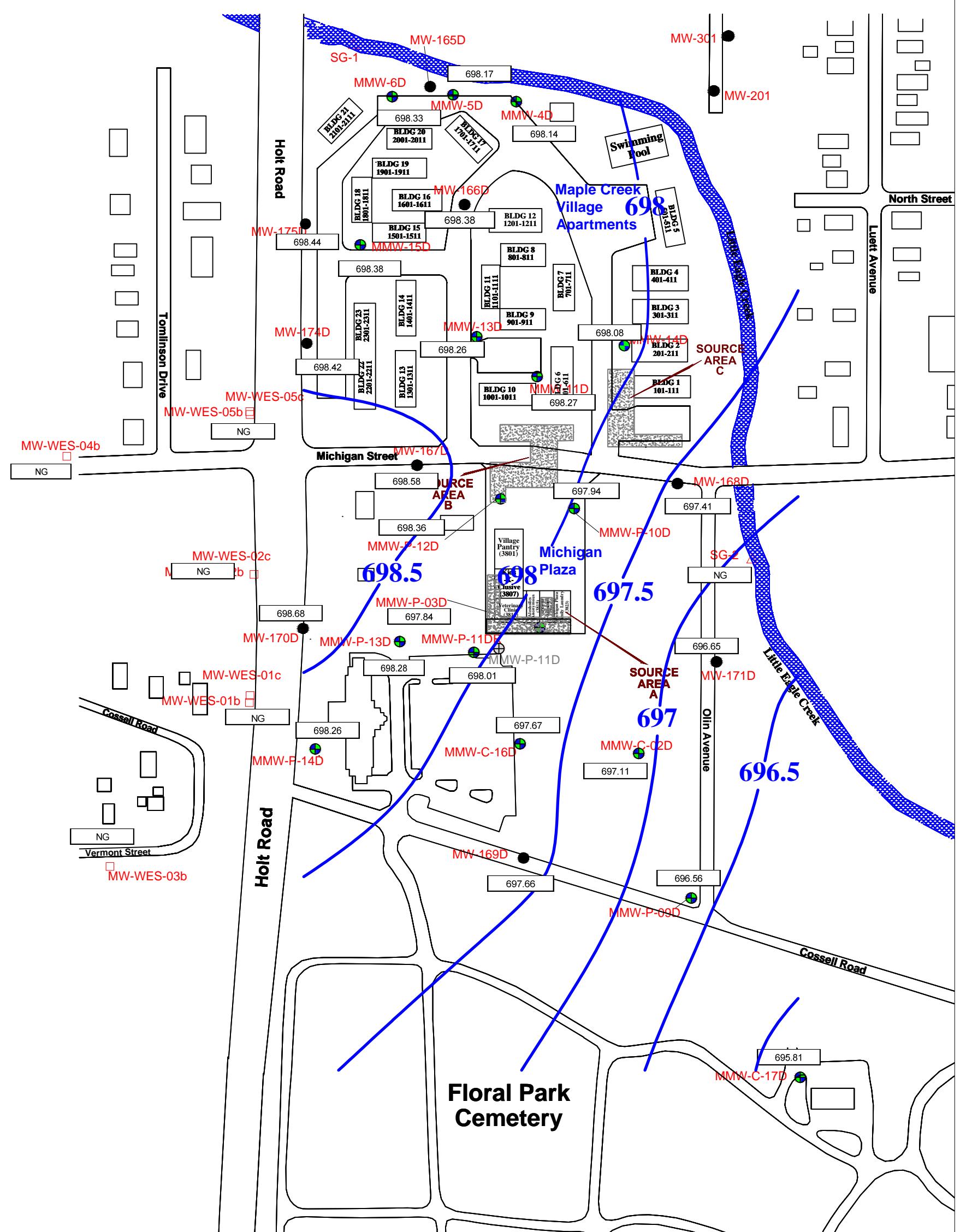
SCALE 200
feet

ENVIRON/Keramida Monitoring
Well Locations Referenced from
Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

Project Number:	M01046
Drawing File:	1Q13 QMR
Date Prepared:	7-23-13
Scale:	1"=200'

SHALLOW POTENTIOMETRIC SURFACE -
2ND QUARTER 2013
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
14



LEGEND

MMW-P-06

MUNDELL Monitoring Well

696.68

Static water elevation (ft-MSL)

MW-160

ENVIRON Monitoring Well

695.64

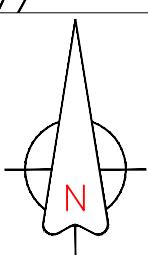
Static water elevation not used to contour potentiometric surface map.

MW-WES-01A

U.S. EPA Monitoring Well

695.64

Potentiometric Surface
Equipotential Lines Contour
Interval = 0.5 feet



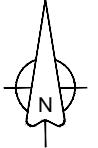
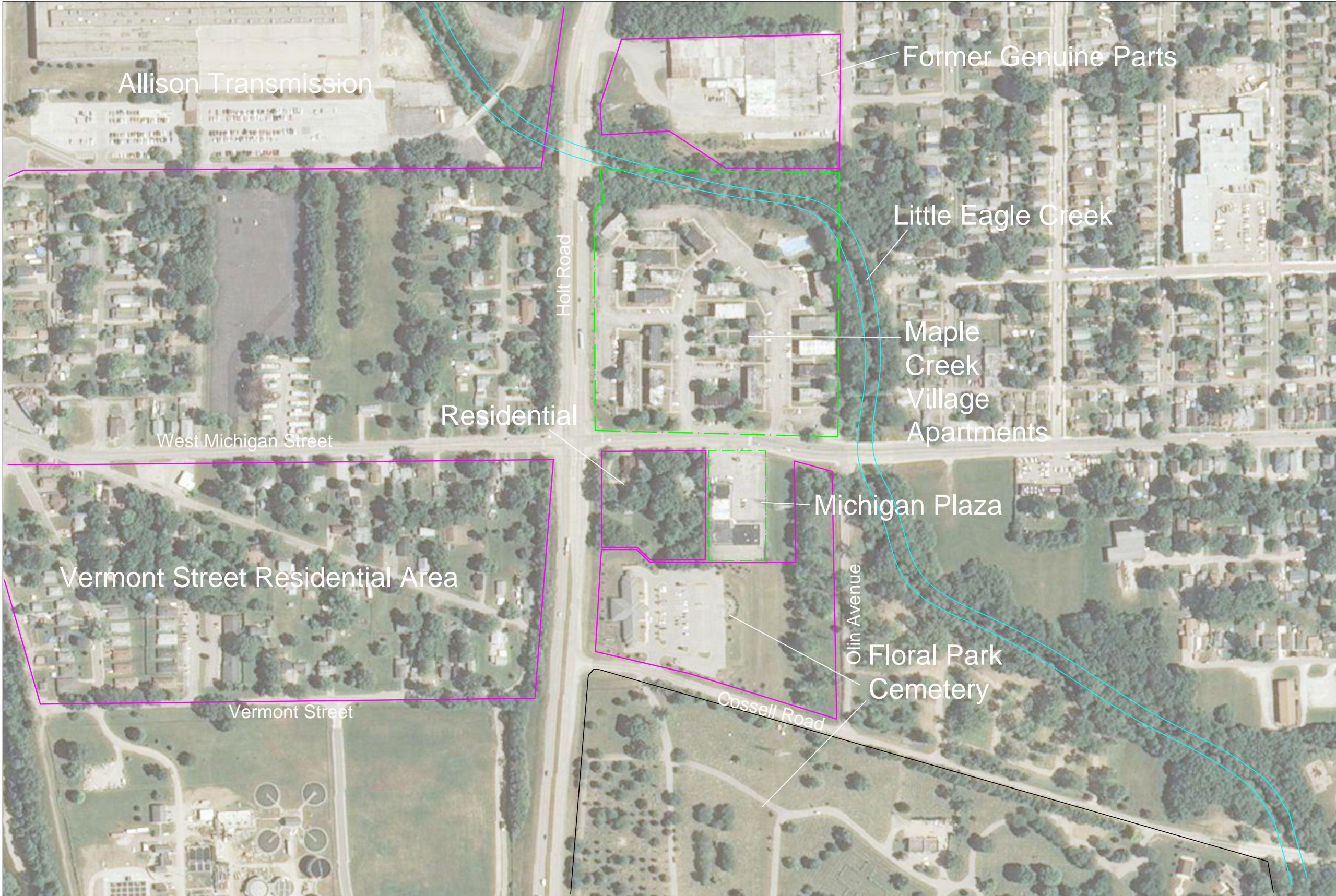
SCALE 200
feet

ENVIRON/Keramida Monitoring
Well Locations Referenced from
Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

Project Number:	M01046
Drawing File:	2Q13 QMR
Date Prepared:	6-6-13
Scale:	1"=200'

DEEP POTENTIOMETRIC SURFACE -
2ND QUARTER 2013
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
15

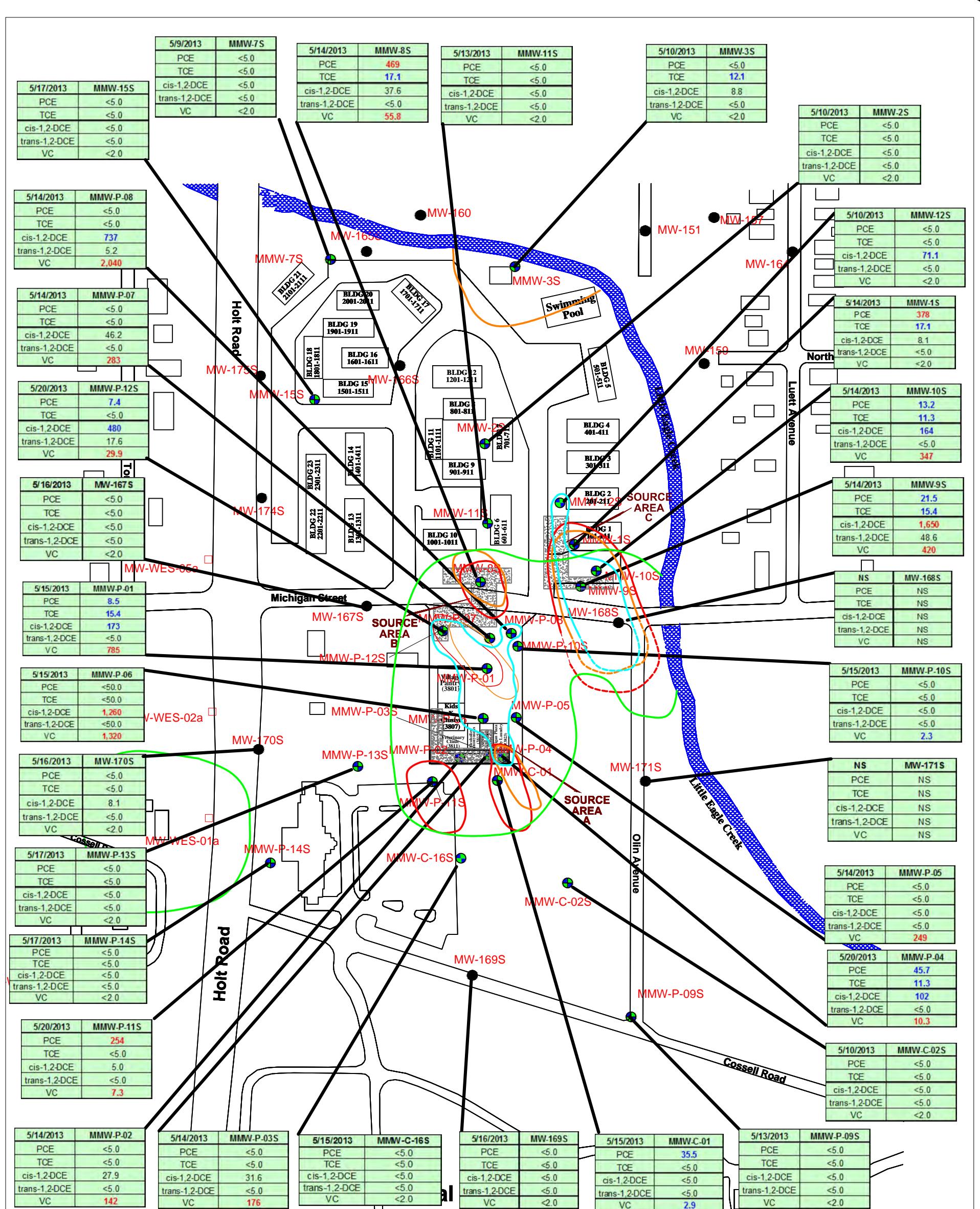


0' 1000' 2000'

FIGURE

16

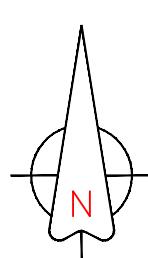
REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: M01046 DNR.dwg	SURROUNDING PROPERTIES MAP
					DRAWING:	PLOT SIZE: 11"X17"	
					DRAFTED BY: SG/MEB	DATE: 08/12/2013	
					CHECKED BY: MEB	DATE: 9/15/2013	
					APPROVED BY: MEB	DATE: 9/15/2013	



LEGEND

MMW-P-06		MUNDELL Monitoring Well
MW-160		ENVIRON Monitoring Well
W-WES-01A		U.S. EPA Monitoring Well
		Inferred Extent of PCE > 5 ug/L
		Inferred Extent of TCE > 5 ug/L
		Inferred Extent of Cis-1,2 - DCE > 70 ug/L
		Inferred Extent of VC = 2 ug/L

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2
5/14/2013	MMW-1S	All Values Over IDEM RISC Industrial Default Cleanup Levels in R			
PCE	378	All Values Over IDEM RISC Residential Default Cleanup Levels in 20			
TCE	17.1	PCE = Tetrachloroethene			
cis-1,2-DCE	8.1	TCE = Trichloroethene			
trans-1,2-DCE	<5.0	cis-1,2-DCE = cis-1,2-Dichloroethene			
		trans-1,2-DCE = trans-1,2-Dichloroethene			
		ug/l = micrograms per liter			
		NS = Not Sampled			



0 SCALE 200

NS = Not Sampled



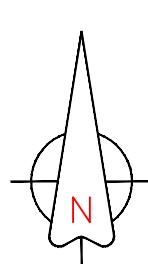
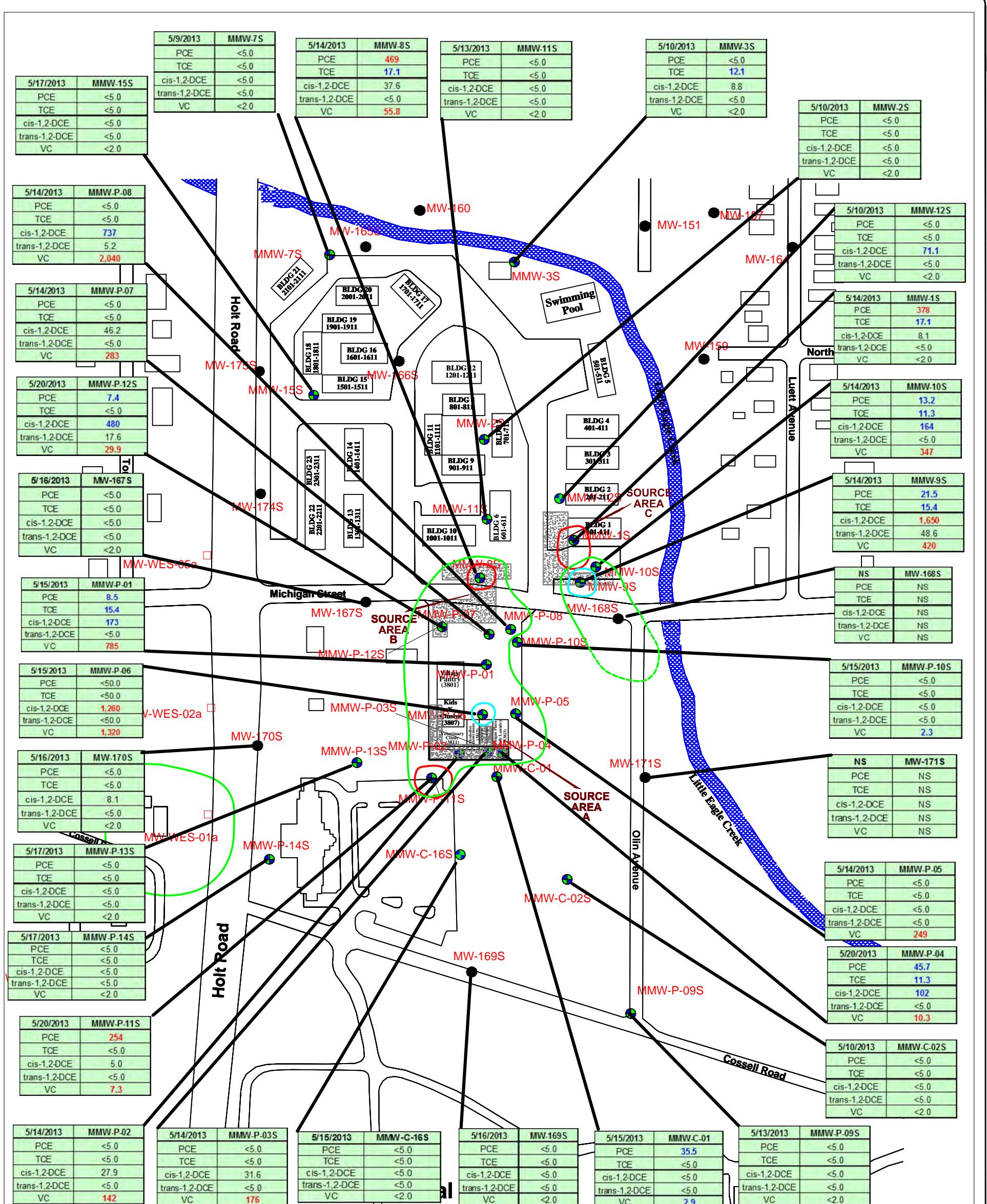
110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax
317-630-9065

Project Number:	M01046
Drawing File:	2Q13 QMR
Date Prepared:	9-17-2013
Scale:	

**GROUNDWATER ANALYTICAL MAP - SHALLOW
2ND QUARTER 2013 (RDCL-RCG TAP
RESIDENTIAL EXCEEDANCES)**

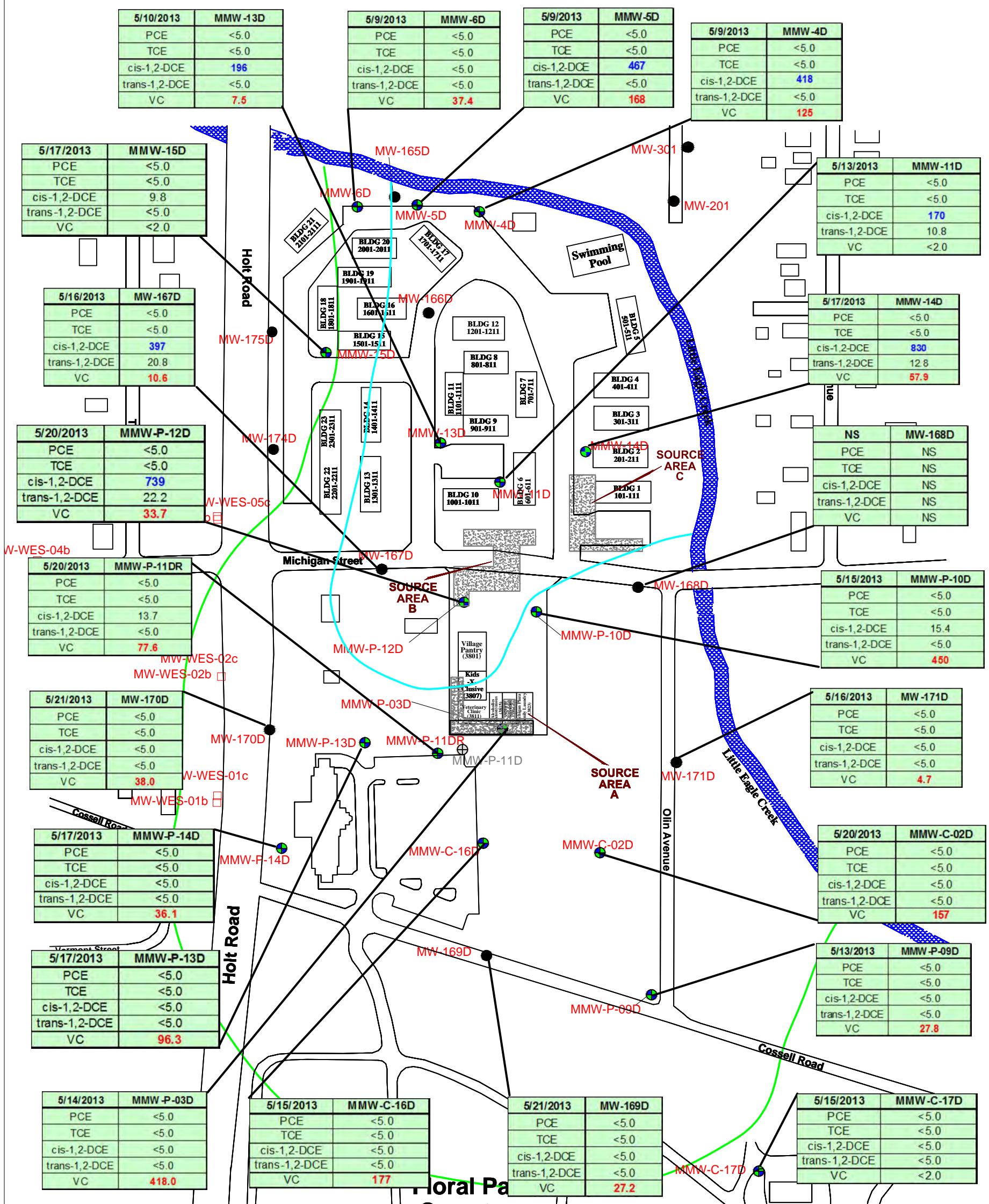
Michigan Plaza
3801 - 3823 West Michigan Street

FIGURE 17a



0 SCALE 200 feet

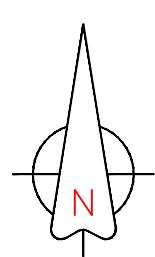
**FIGURE
17b**



LEGEND

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
IDEML RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEML RISC Default Residential Cleanup Level: IDEML 2012 RCG Tap Residential	5	5	70	100	2
4/25/2012 MMW-1S					
PCE	270				
TCE	11.2				
cis-1,2-DCE	34.2				
trans-1,2-DCE	<5.0				
VC	39				

All Values Over IDEML RISC Industrial Default Cleanup Levels in Red
All Values Over IDEML RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level in Blue
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/l = micrograms per liter
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/l)



0 SCALE 200 feet

Project Number:
M01046

Drawing File:
2Q13 QMR

Date Prepared:
9-17-13

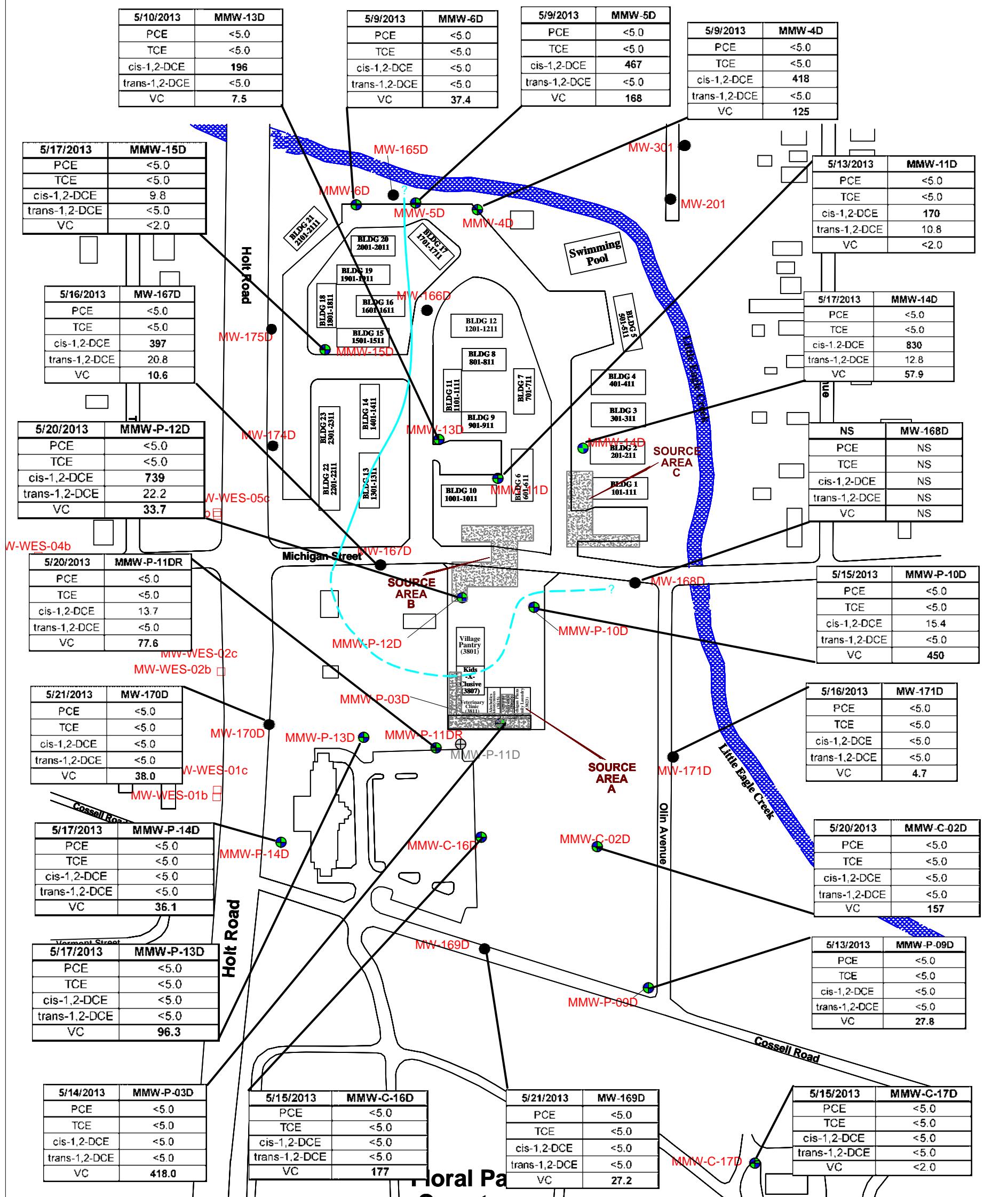
Scale:
1"=200'

GROUNDWATER ANALYTICAL MAP - DEEP 2ND QUARTER 2013 (RDCL-RCG TAP) RESIDENTIAL EXCEEDANCES)

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE

18

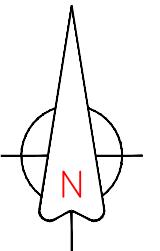


LEGEND

MMW-P-09D	MUNDELL Monitoring Well
MW-169D	ENVIRON Monitoring Well
MW-WES-05C	U.S. EPA Monitoring Well
—	Inferred Extent of PCE > 5 ug/L
—	Inferred Extent of TCE > 5 ug/L
—	Inferred Extent of Cis-1,2 - DCE > 70 ug/L
—	Inferred Extent of VC > 2 ug/L
NS = Not Sampled	

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
ug/l					
IDEML RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEML RISC Default Residential Cleanup Level; IDEML 2012 RCG Tap Residential	5	5	70	100	2
4/25/2012 MMW-1S					
PCE	270				
TCE	11.2				
cis-1,2-DCE	34.2				
trans-1,2-DCE	<5.0				
VC	39				

All Values Over IDEML RISC Industrial Default Cleanup Levels in Red
All Values Over IDEML RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level in Blue
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/l = micrograms per liter
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/l)



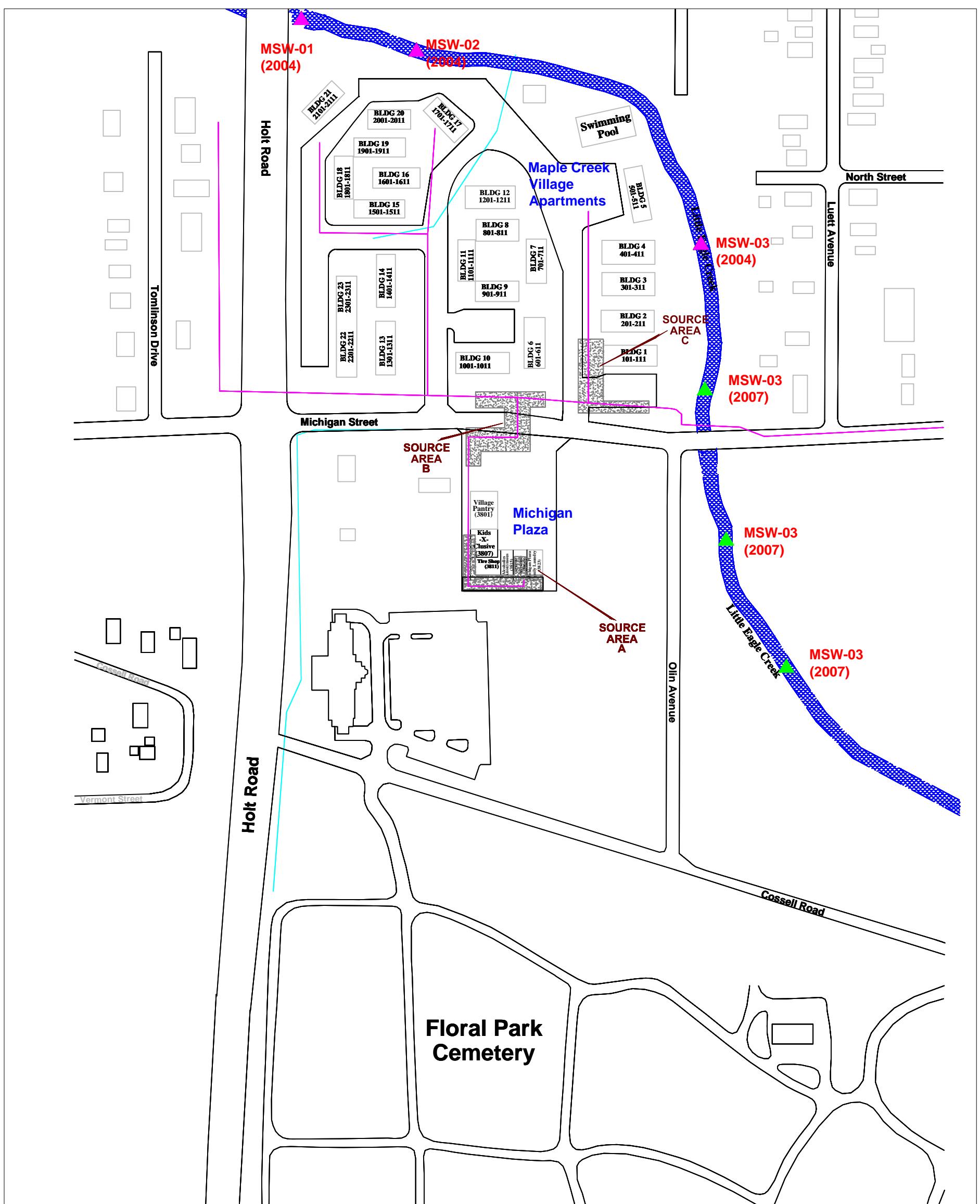
0 SCALE 200 feet

Project Number:
M01046
Drawing File:
2Q13-QMR
Date Prepared:
6-7-13
Scale:
1"=200'

GROUNDWATER ANALYTICAL MAP - DEEP 2ND QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
18

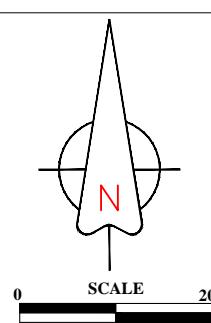


LEGEND

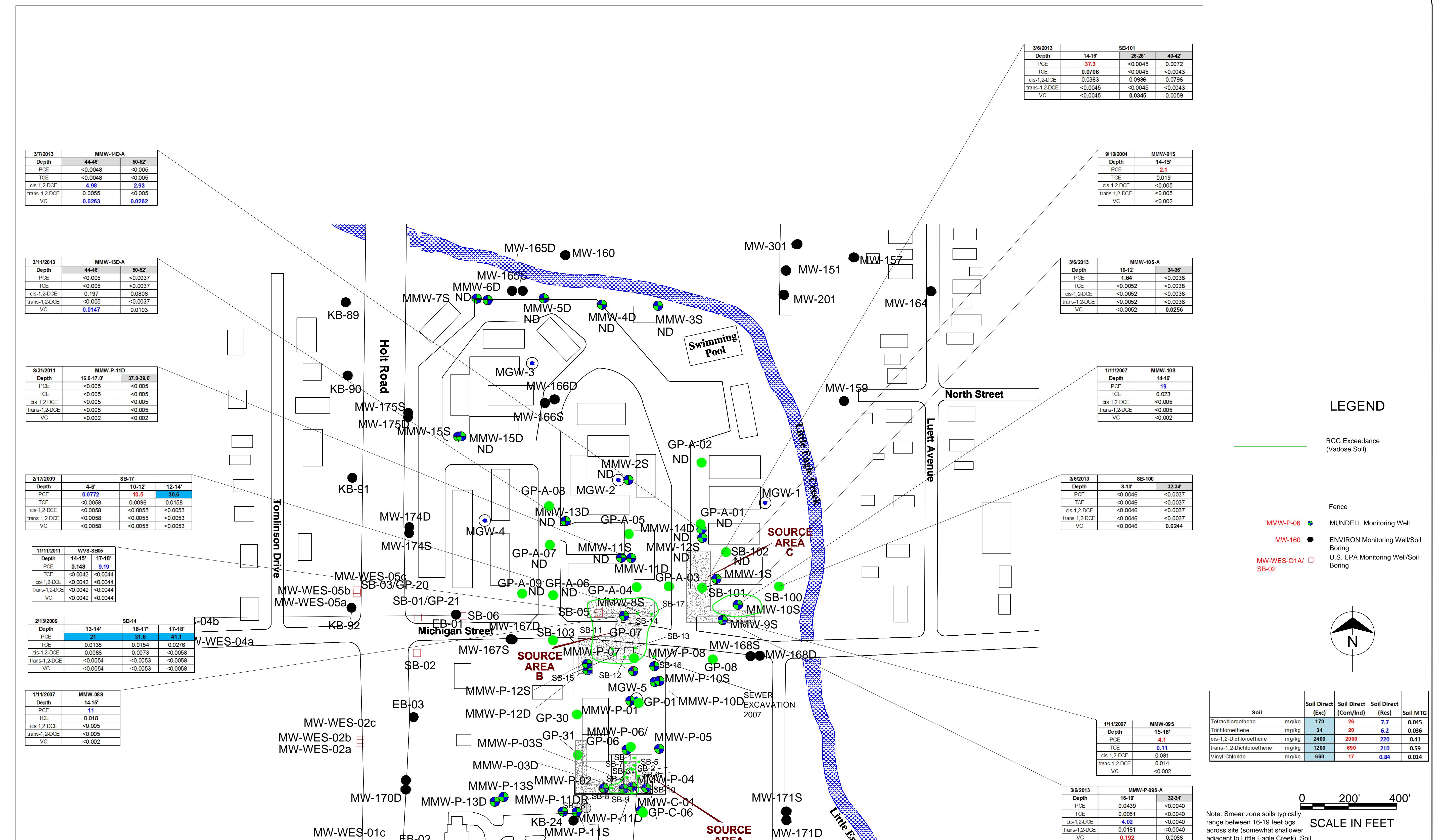
▲ Surface Water Sampling Point (2004)

— Sanitary Sewer
— Storm Sewer

▲ Surface Water Sampling Point (2007)



ENVIRON/Keramida Monitoring
Well Locations Referenced from
Keramida Environmental, Inc.
Project No. 2829
March 13, 2002



Note: Smear zone soils typically range between 16-19 feet bgs across site (somewhat shallower adjacent to Little Eagle Creek). Soil results from samples collected below the smear zone (in the saturated soil zone) are highlighted in gray in sample depth header.

Historical Soil Analytical North of Michigan Street

Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

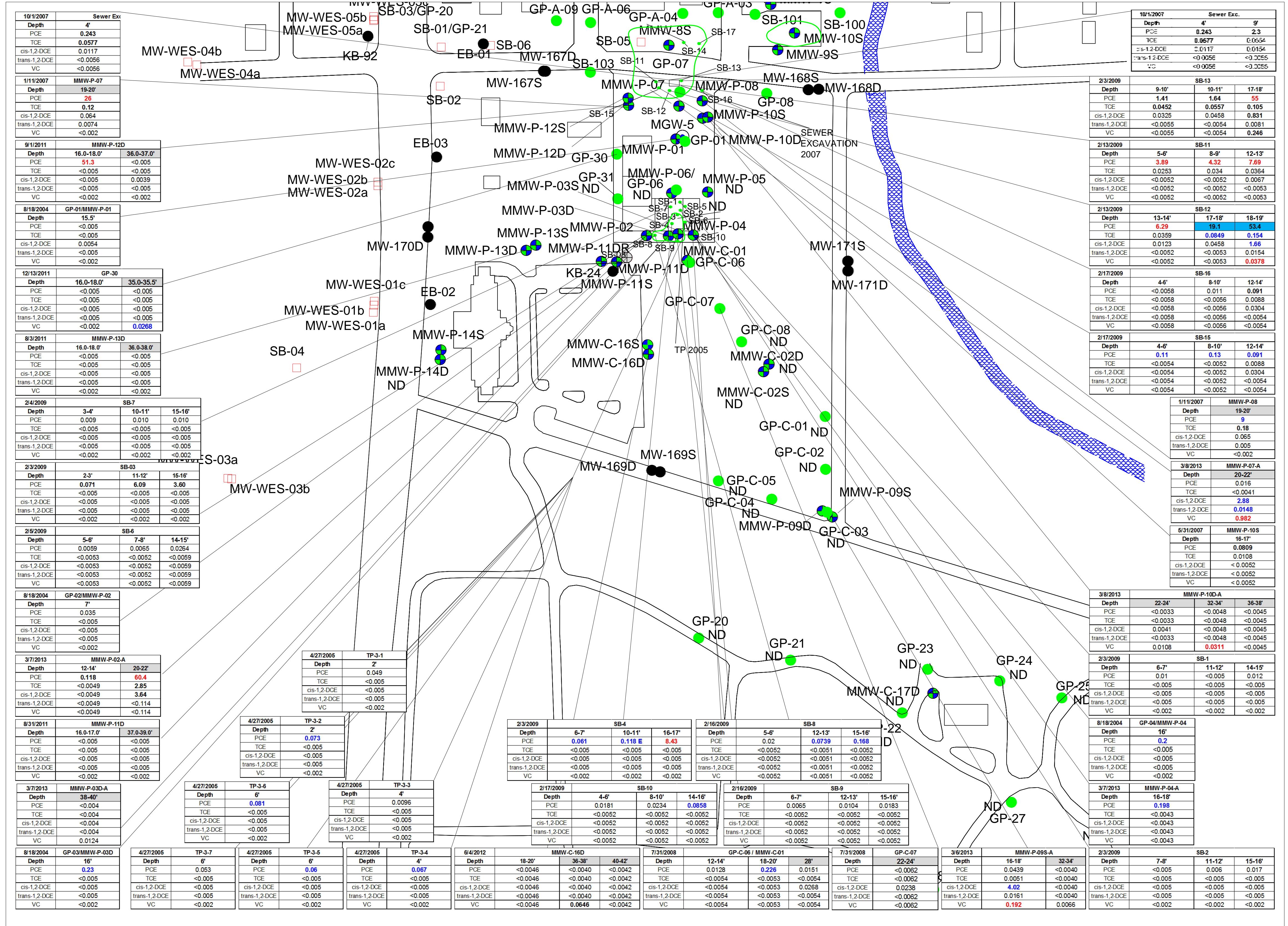
FIGURE

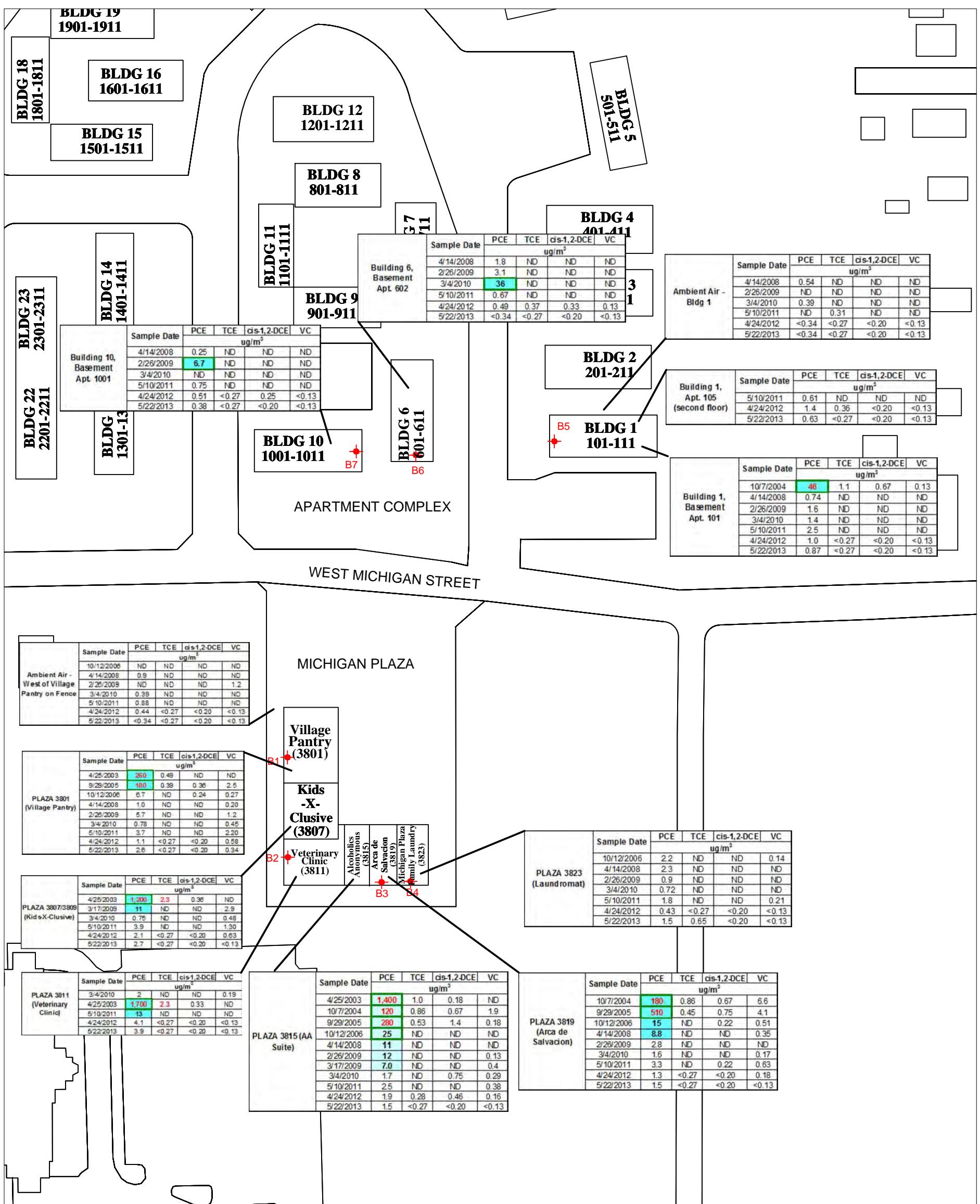
20a



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REV.	DATE	DESCRIPTION	BY	APPR.	PROJECT NO.: M01046	FILE NO.:GW Quarterly.DWG
					DRAWING: 1"=100'	PLOT SIZE: ANSI
					DRAFTED BY: SVE	DATE: 5/31/13
					CHECKED BY: MTB	DATE: 5/31/13
					APPROVED BY: MEB	DATE: 9/15/13





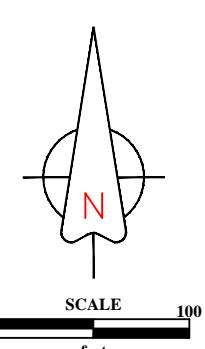


LEGEND

MGW-1 ● MUNDELL Soil Gas Well

B1 ♦ System Location

Soil Gas Regulatory Limits	Reference	PCE	TCE	cis-1,2-DCE	VC
		ug/m ³			
EPA 2002	8,100	220	3,500	280	
IDEM 2010 Commercial	5,100	20,000	-	15,000	
IDEM 2010 Residential	3,600	2,000	-	3,500	
IDEM 2012 RCG Commercial	21	8.8	-	28	
IDEM 2012 RCG Residential	4.1	2.1	-	1.6	



Project Number:
M01046
Drawing File:
2013 QMR
Date Prepared:
6/7/13
Scale:
1" = 100'

SOIL GAS ANALYTICAL RESULTS

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE

22

901-911

**BLDG 2
201-211**

**BLDG 10
1001-1011**

B7

**BLDG 6
601-611**

B6

**BLDG 1
101-111**

B5

APARTMENT COMPLEX

WEST MICHIGAN STREET

MICHIGAN PLAZA

**Village
Pantry
(3801)**

**Kids
-X-
Clusive
(3807)**

**B2 Veterinary
Clinic
(3811)**

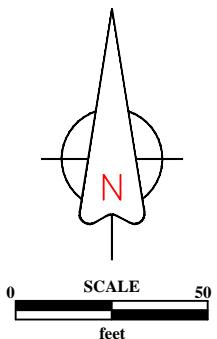
Alcoholics
Anonymous
(3815)

Arca de
Salvacion
(3819)

Michigan Plaza
Family Laundry
(3823)

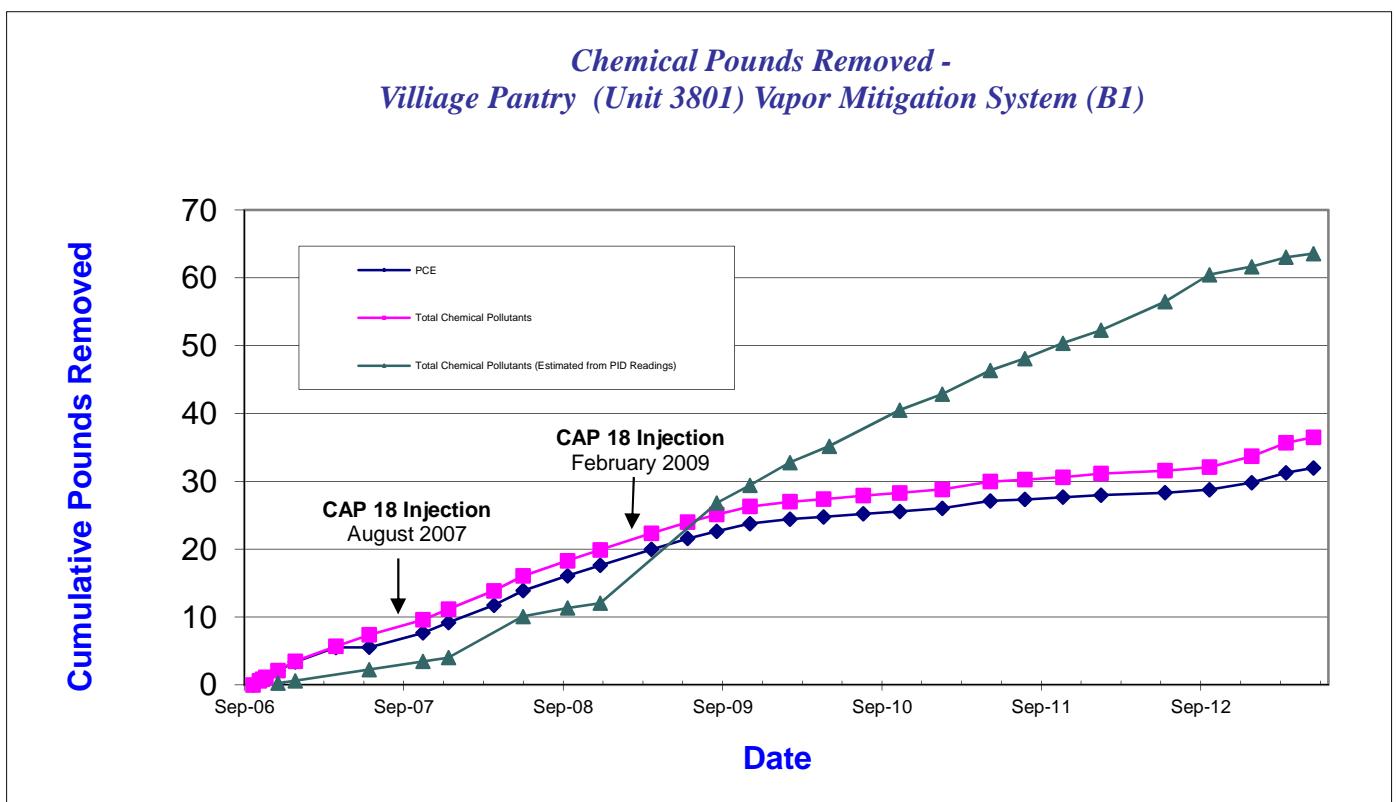
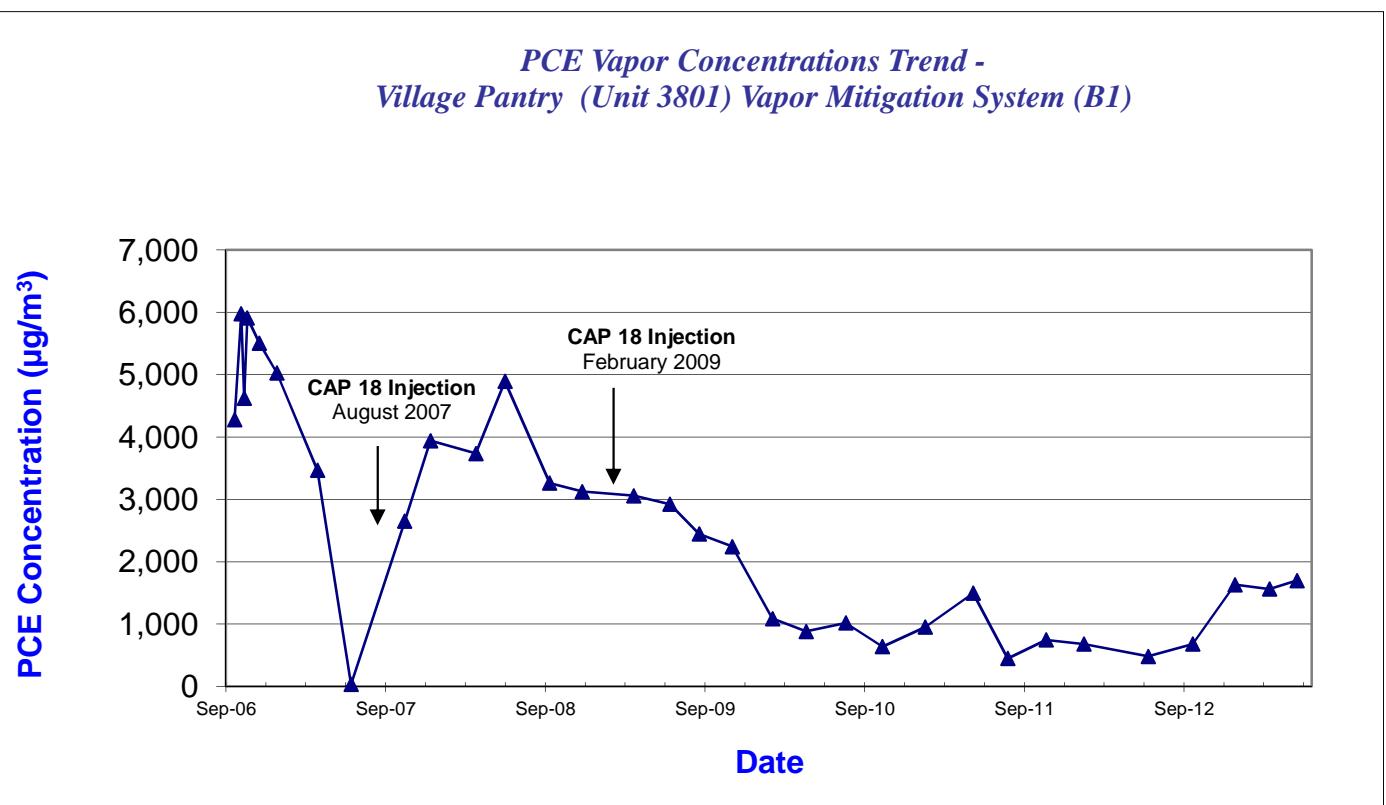
LEGEND

B1 • Mitigation System
Location



Project Number:	M01046
Drawing File:	2Q13 QMR
Date Prepared:	6/7/13
Scale:	1"=50'

**INDOOR AIR MITIGATION SYSTEM
LOCATION MAP**
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA



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Project Number:
M01046

File:
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Date Prepared:
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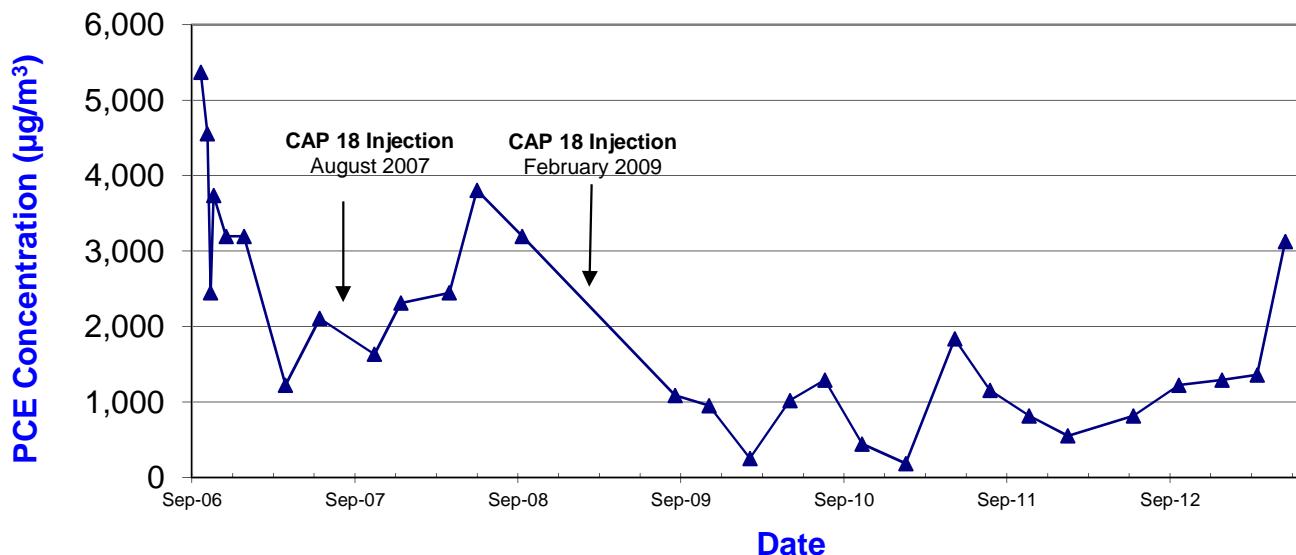
Scale:
no scale

**PCE Concentration Trends
and Cumulative Pounds Removed**

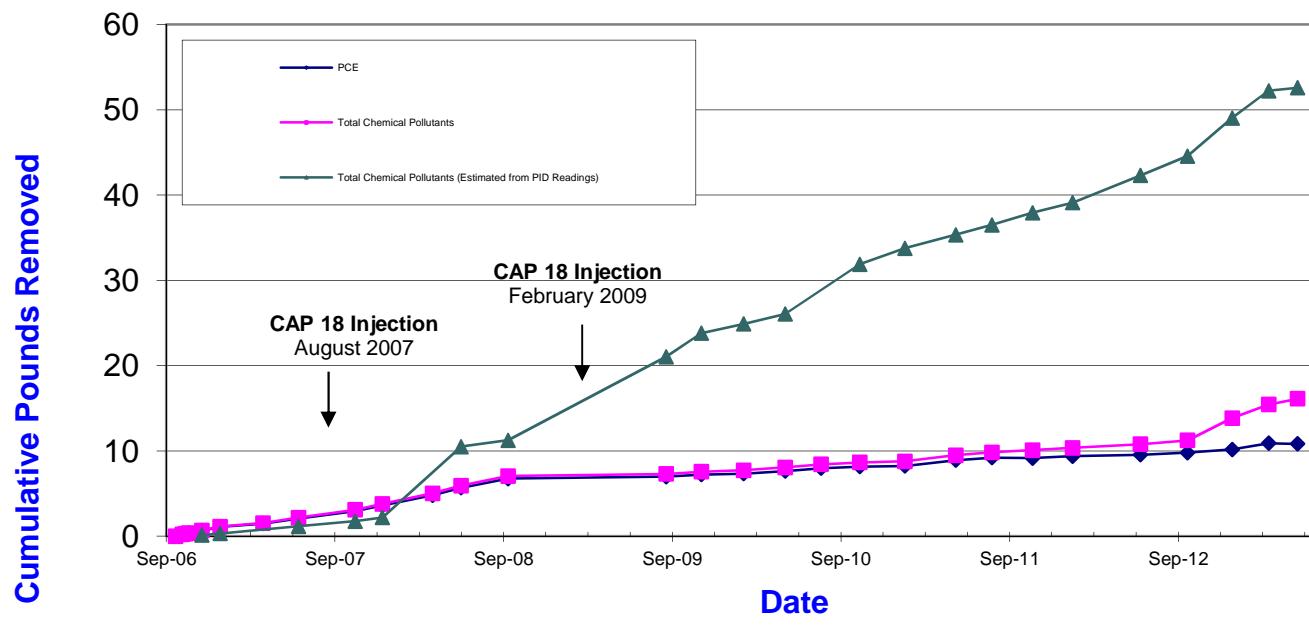
Vapor Mitigation System B-1 (Village Pantry - Unit 3801)
Second Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE 24A

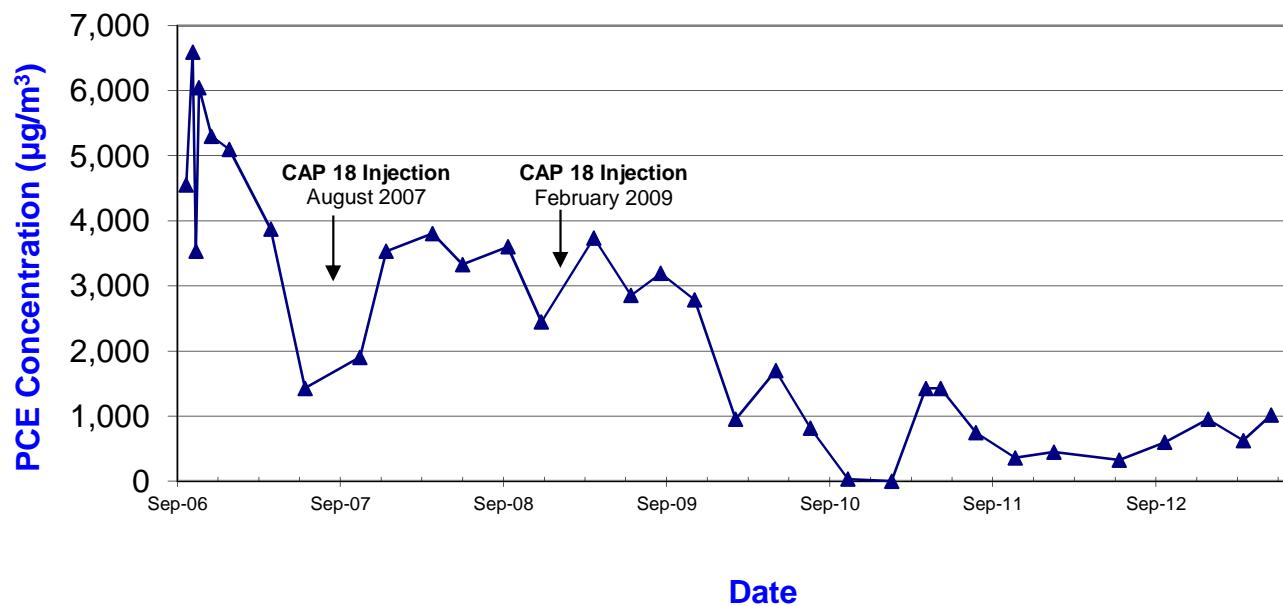
**PCE Vapor Concentrations Trend -
Unit 3811 Vapor Mitigation System (B2)**



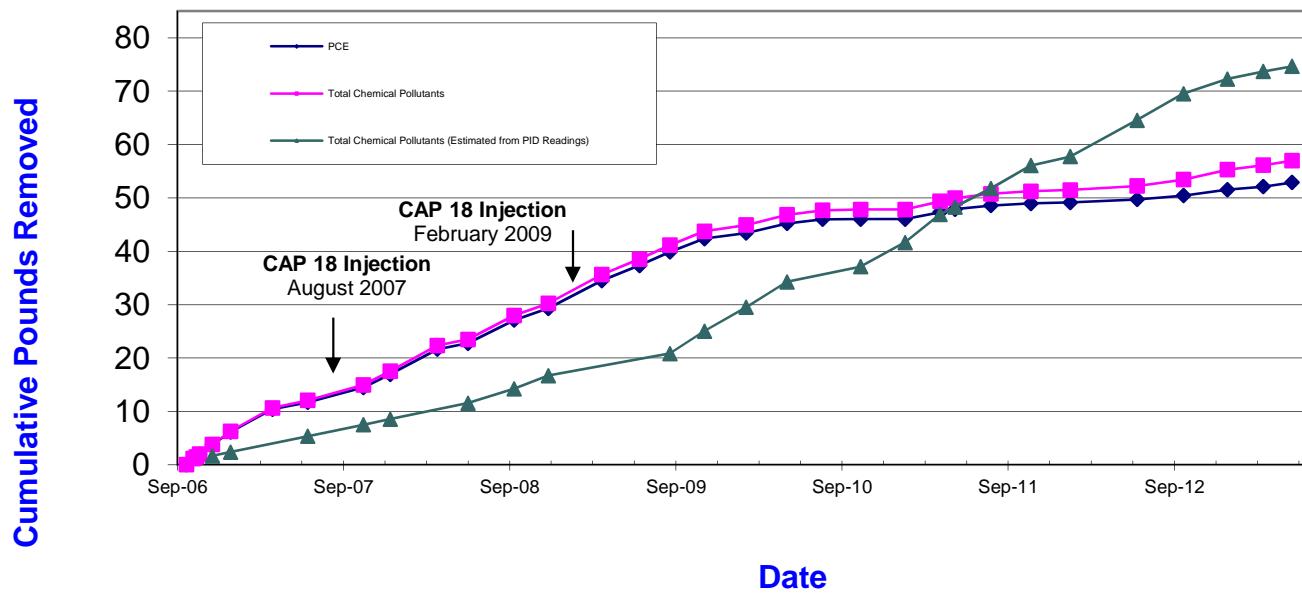
**Chemical Pounds Removed -
Unit 3811 Vapor Mitigation System (B2)**



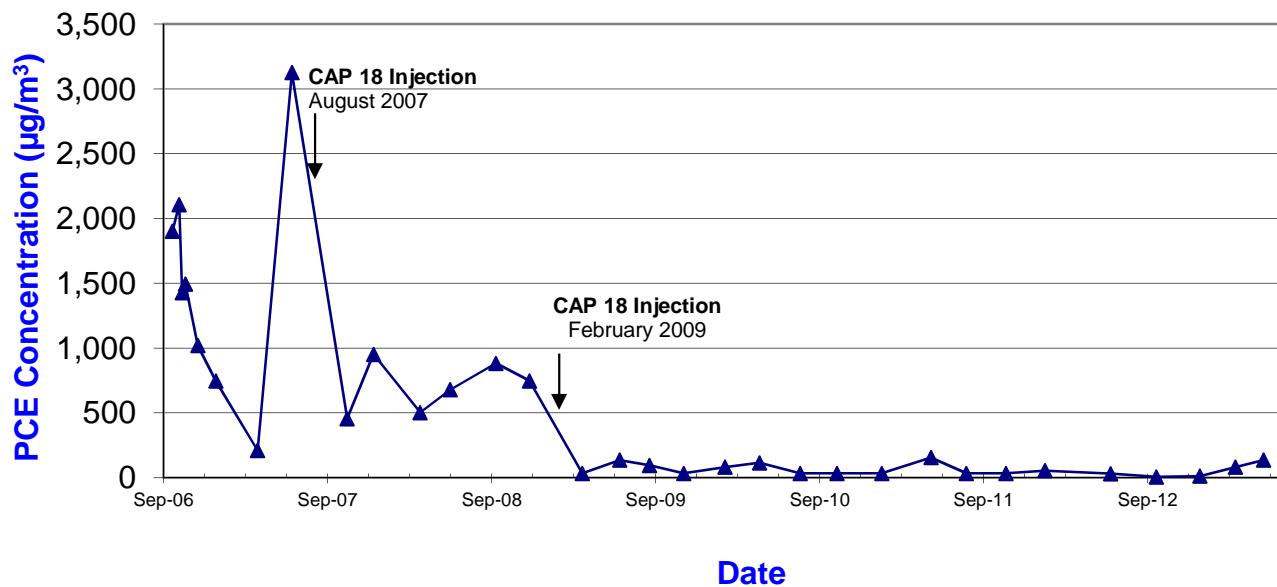
**PCE Vapor Concentrations Trend -
Unit 3819 Vapor Mitigation System (B3)**



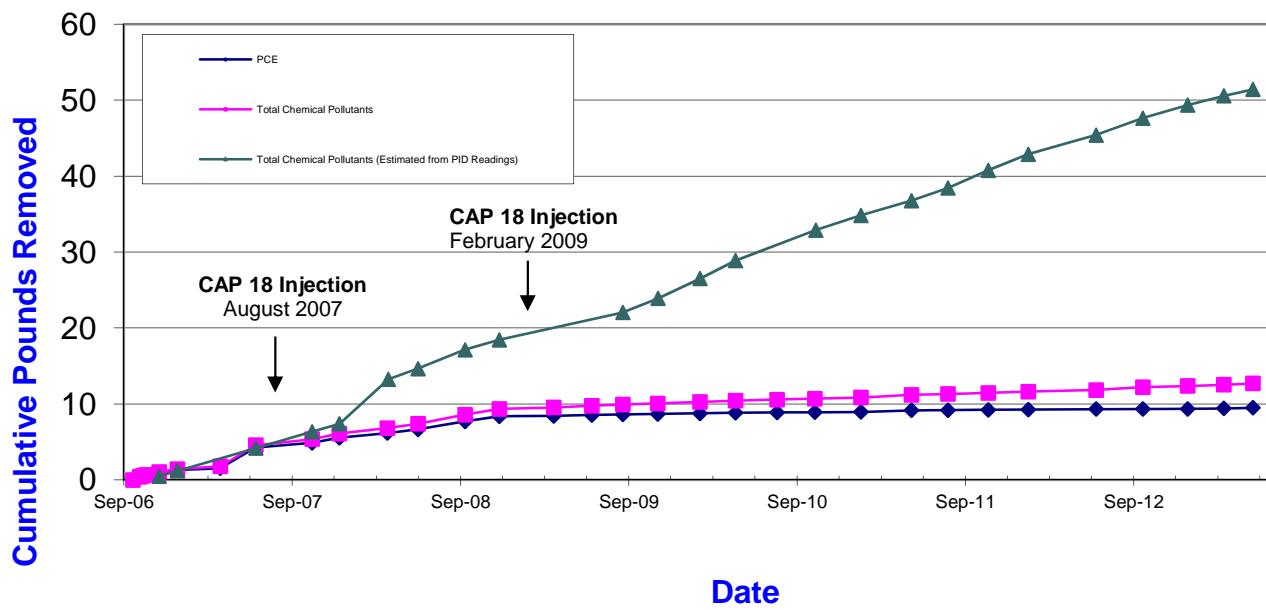
**Chemical Pounds Removed -
Mexican Store Vapor Mitigation System (B3)**



PCE Vapor Concentrations Trend - Laundromat Vapor Mitigation System (B4)



Chemical Pounds Removed - Laundromat Vapor Mitigation System (B4)

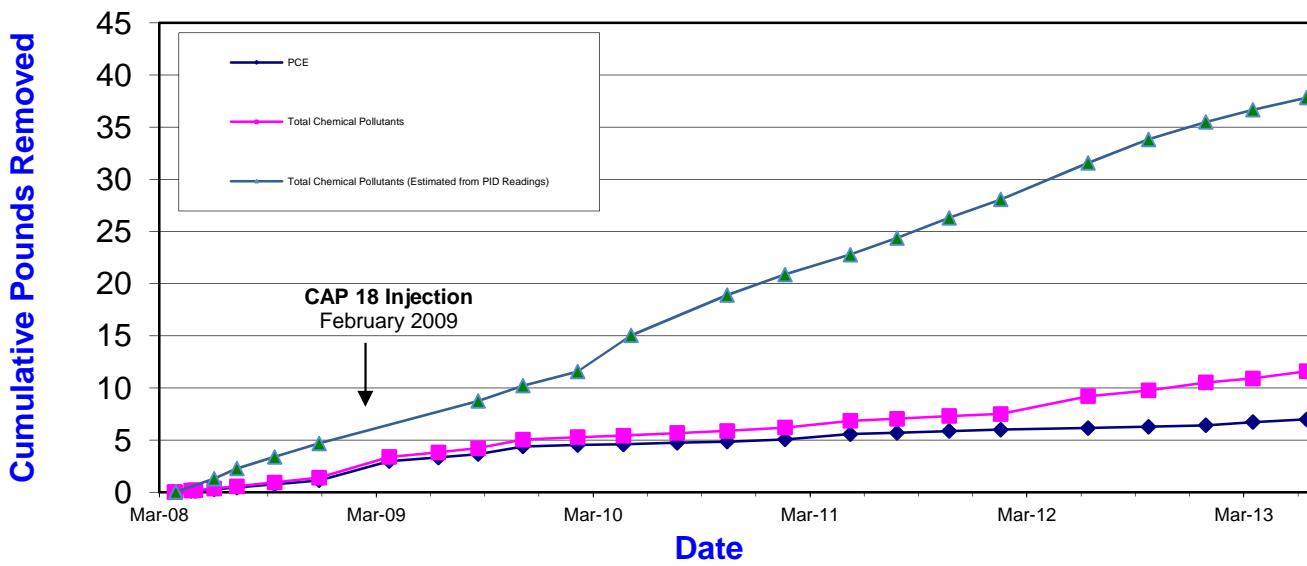
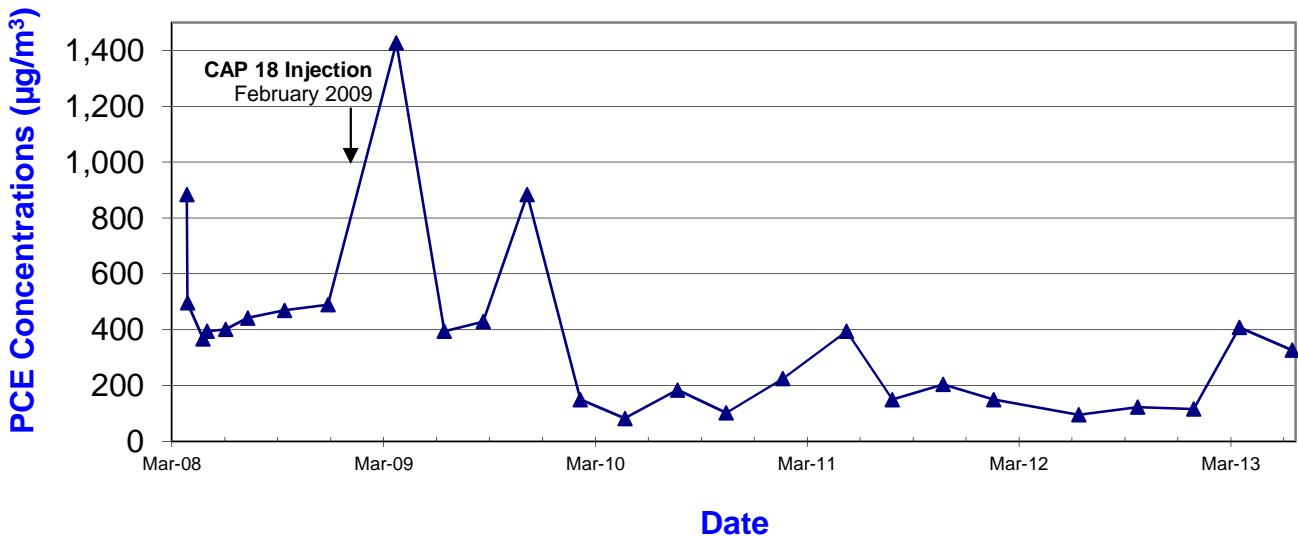


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Project Number:
M01046
File:
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Date Prepared:
7/5/2013
Scale:
no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-4 (Laundromat - Unit 3823)
Second Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE 24D



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Project Number:
M01046

File:
MI Plaza charts

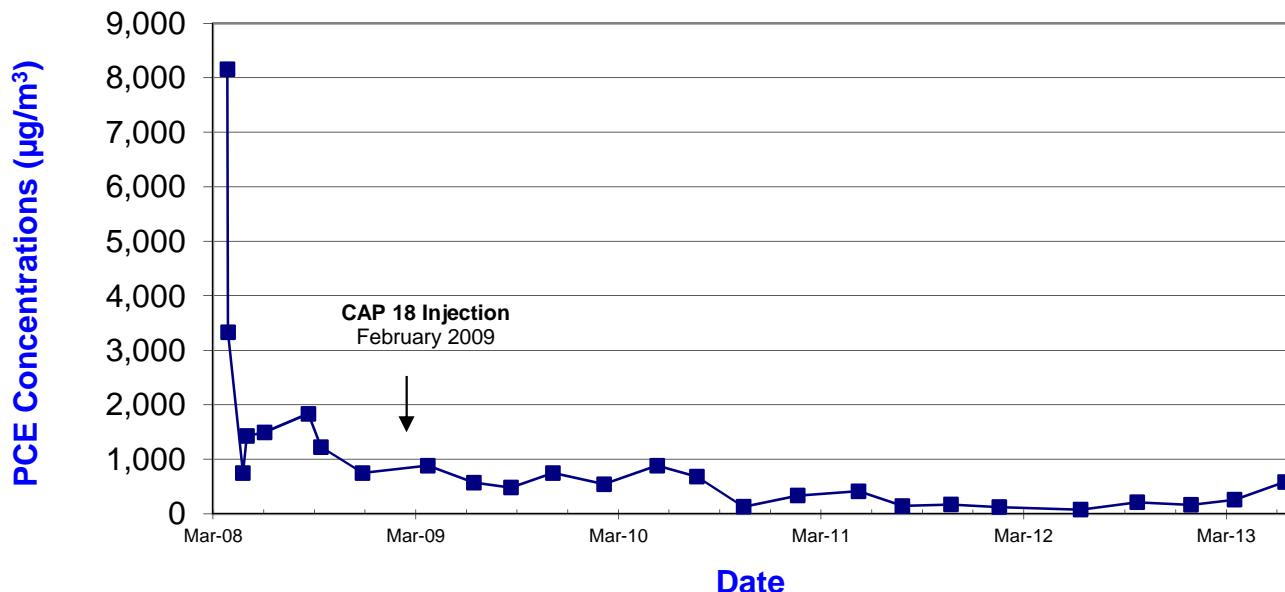
Date Prepared:
7/5/2013

Scale:
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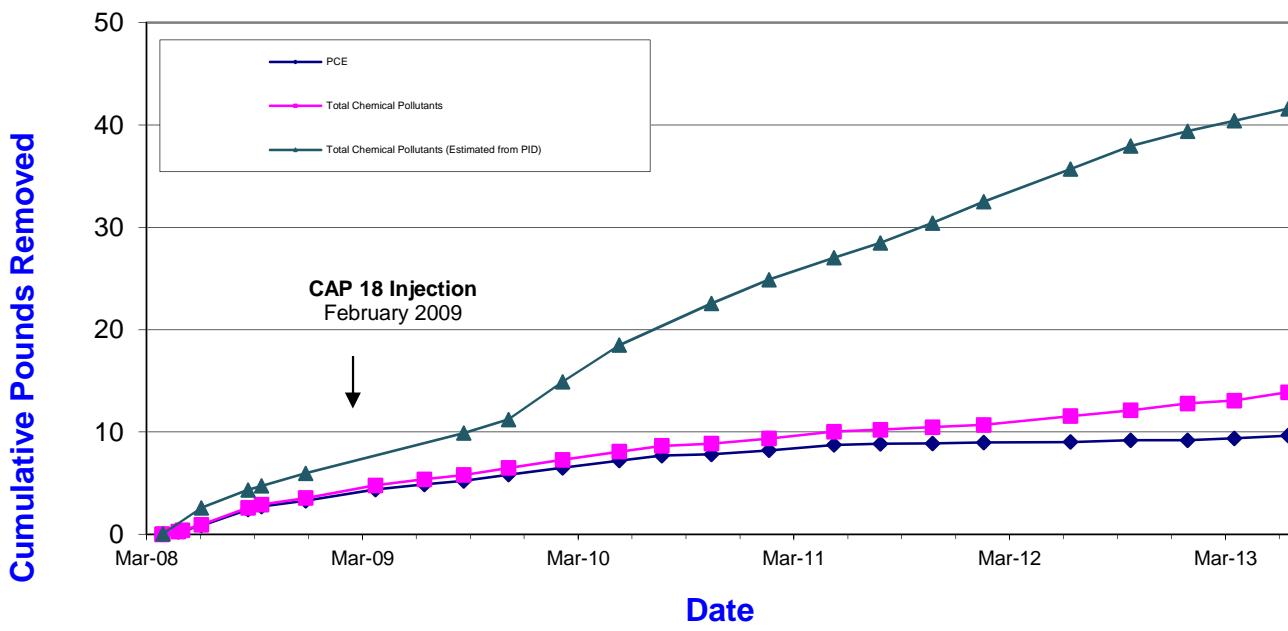
PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-5 (Apartments, Bldg. 1)
Second Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

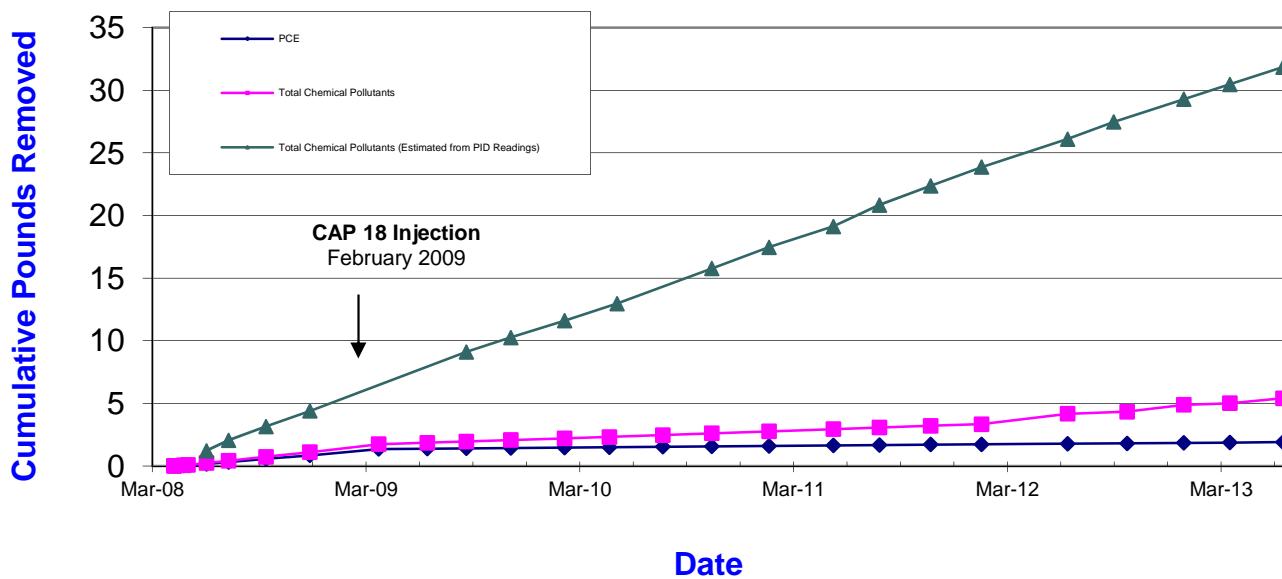
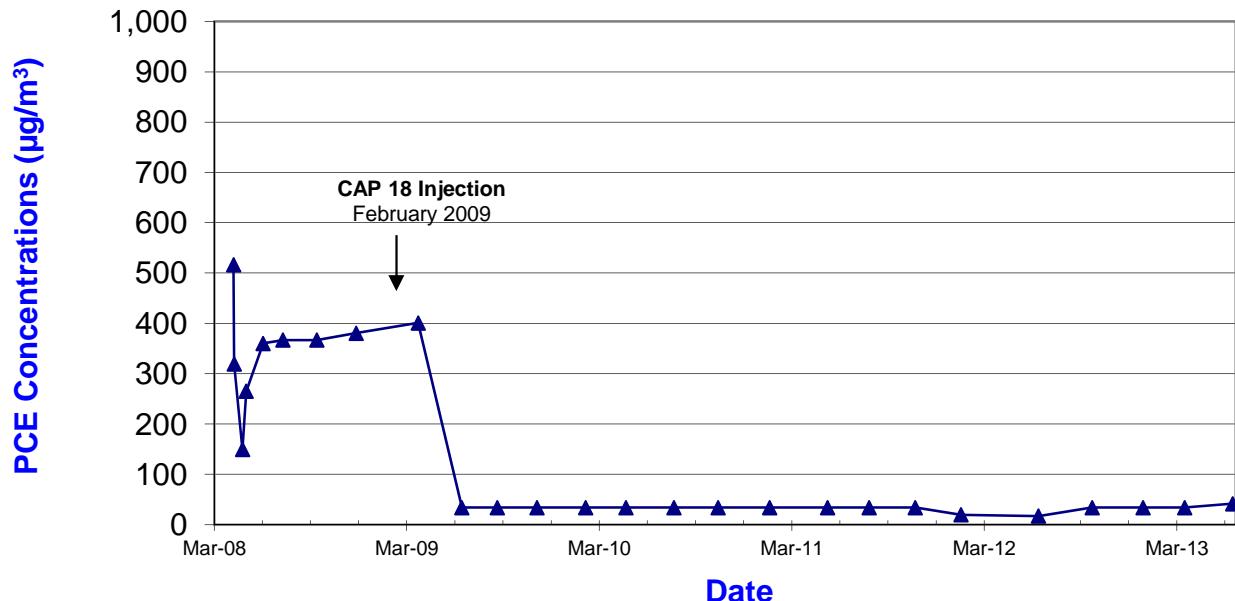
FIGURE 24E

**PCE Vapor Concentrations Trend -
Apartment Building 6 Vapor Mitigation System (B6)**



**Chemical Pounds Removed -
Apartment Building 6 Vapor Mitigation System (B6)**





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Project Number:
M01046

File:
MI Plaza charts

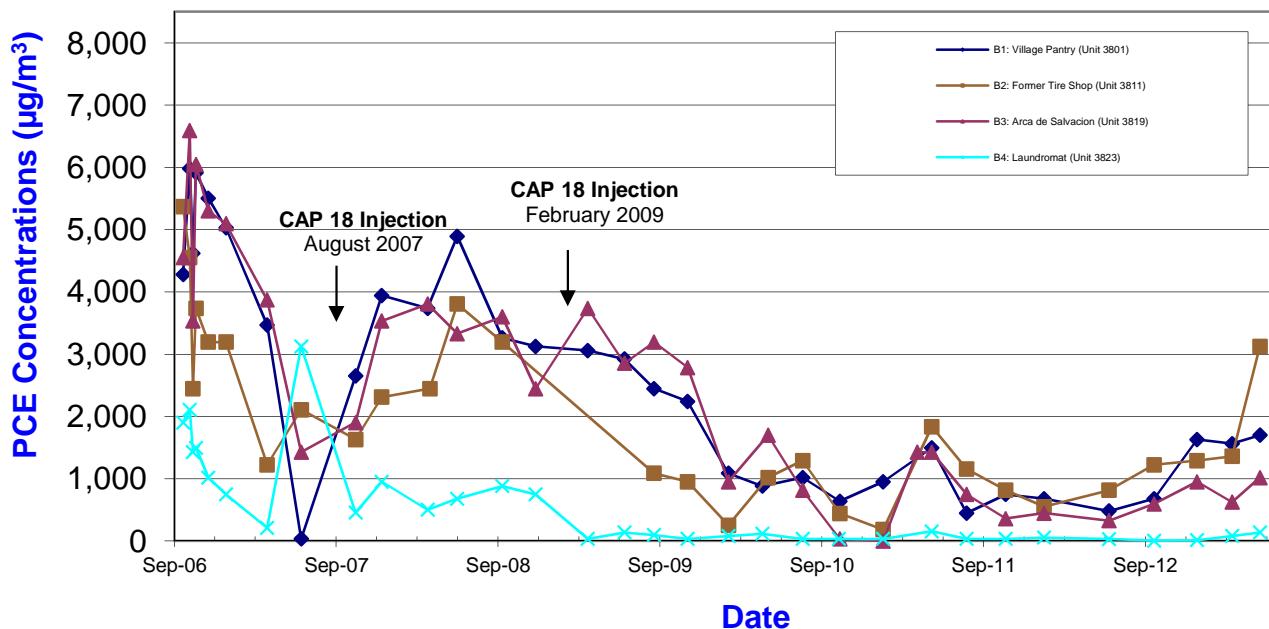
Date Prepared:
7/5/2013

Scale:
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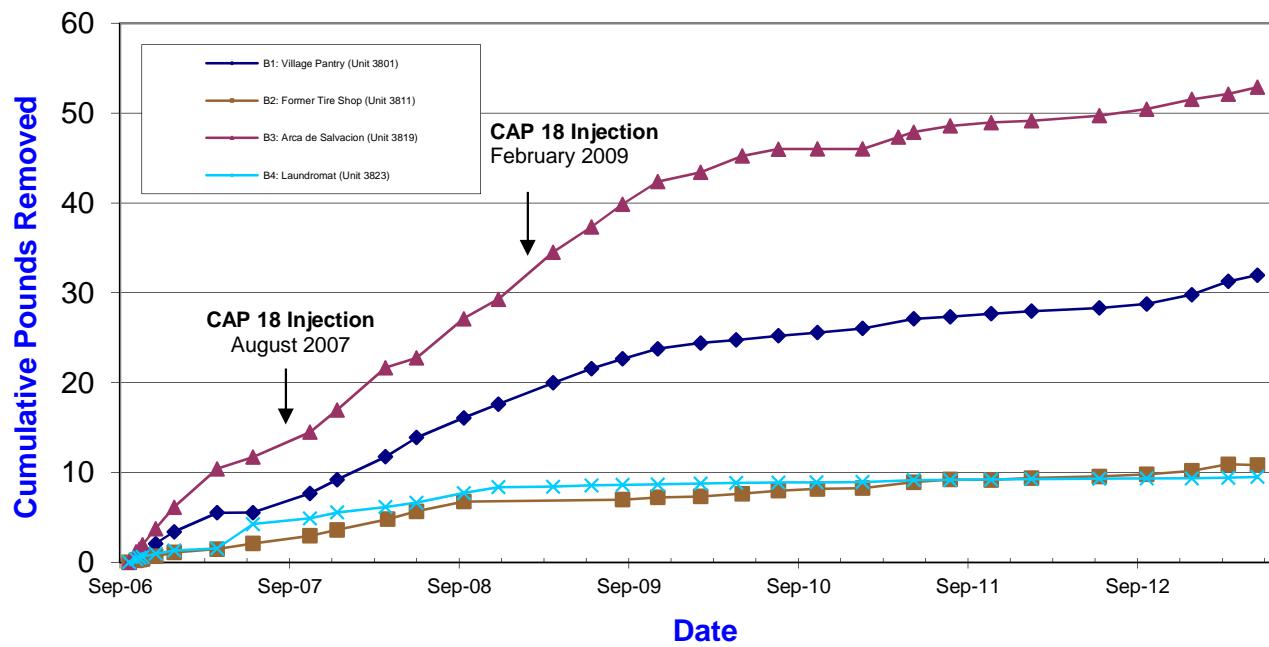
PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-7 (Apartments, Bldg. 10)
Second Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE 24G

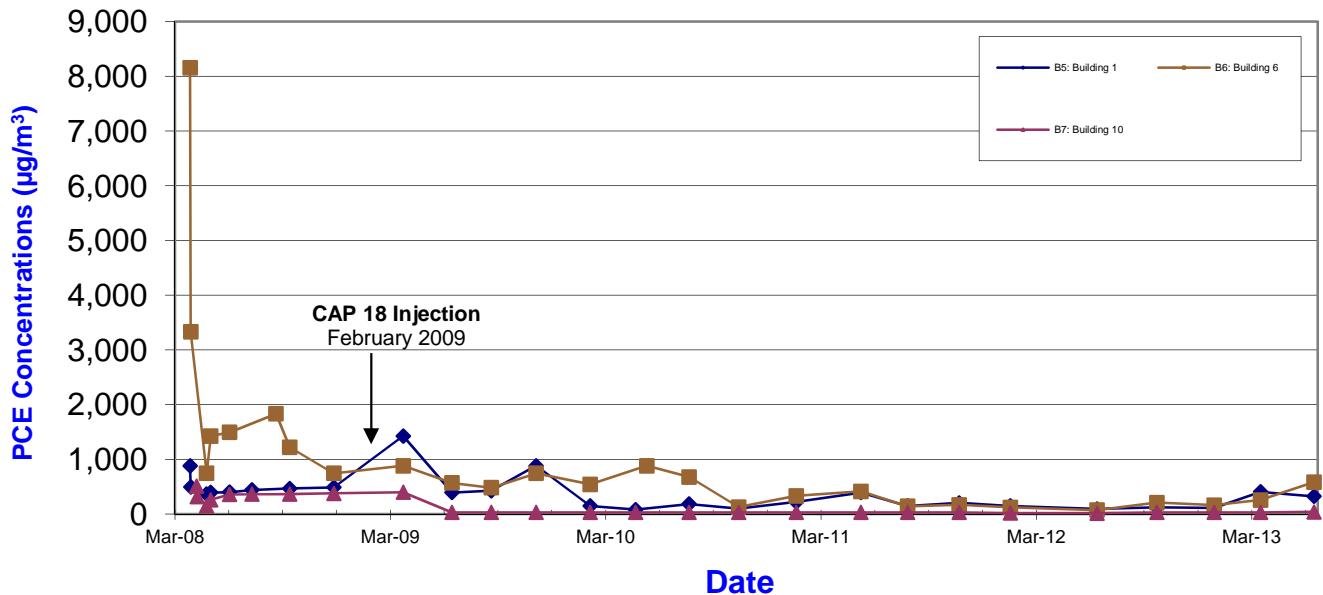
**PCE Concentrations Trend -
Plaza Vapor Mitigation Systems (B1-B4)**



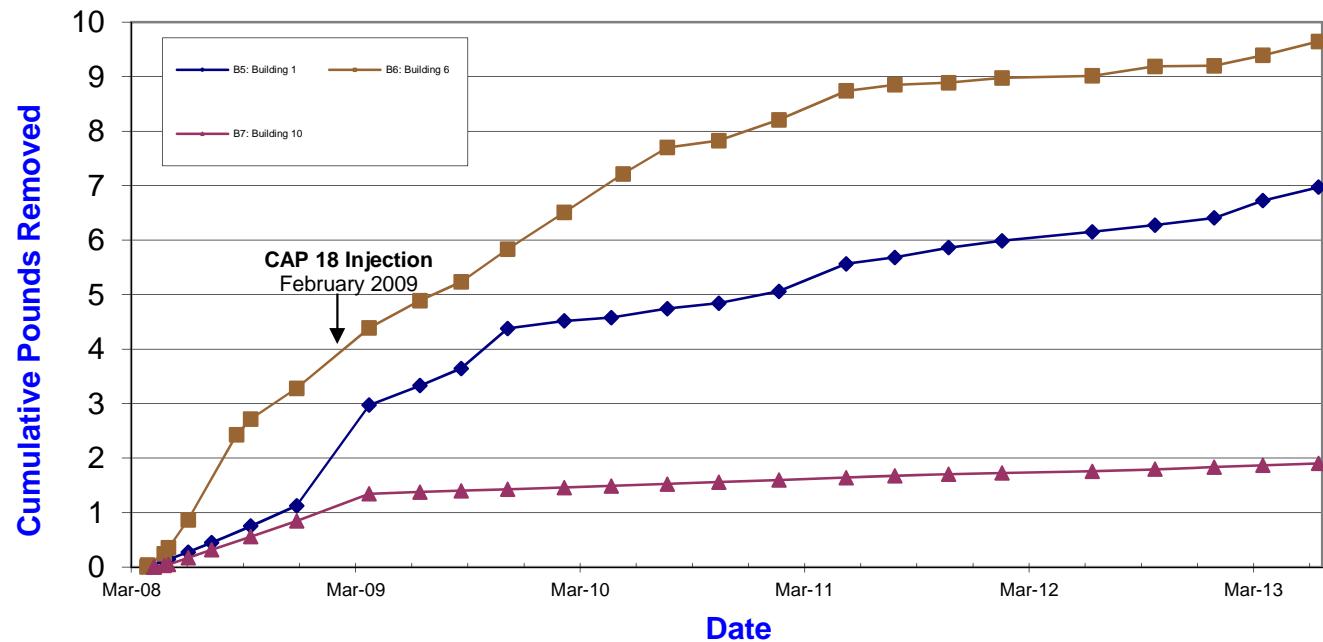
**PCE Pounds Removed -
Plaza Vapor Mitigation Systems (B1-B4)**



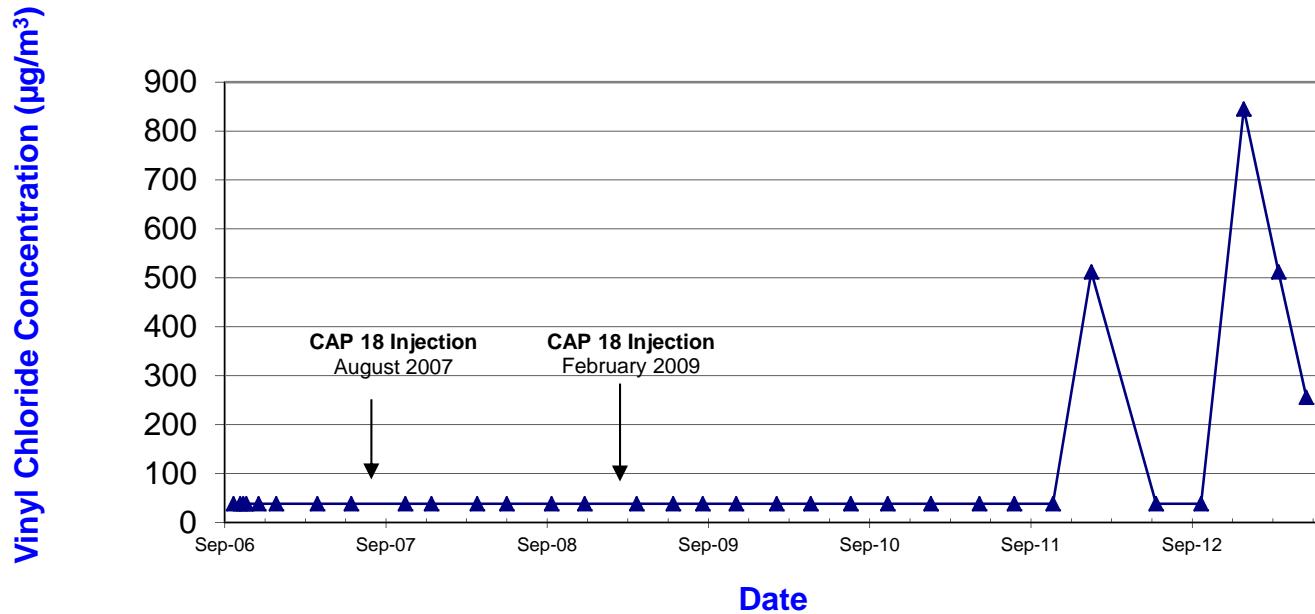
**PCE Concentrations Trend -
Apartment Vapor Mitigation Systems (B5-B7)**



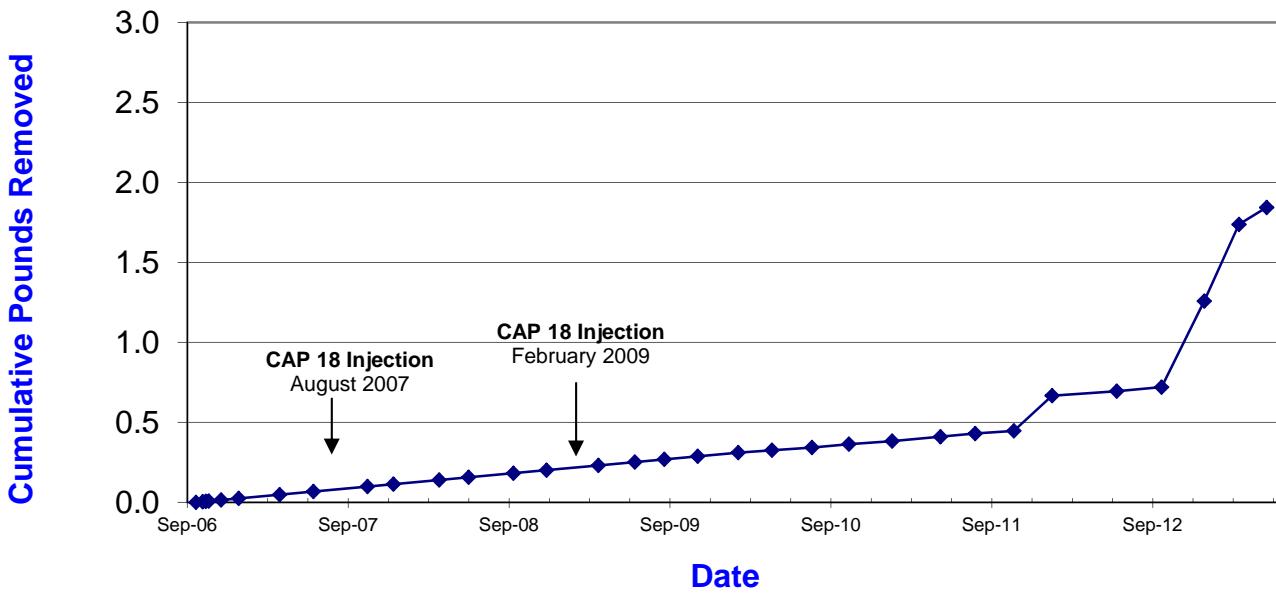
**PCE Pounds Removed -
Apartment Vapor Mitigation Systems (B5-B7)**



**Vinyl Chloride Vapor Concentrations Trend -
Village Pantry (Unit 3801) Vapor Mitigation System (B1)**



**Chemical Pounds Removed -
Village Pantry (Unit 3801) Vapor Mitigation System (B1)**



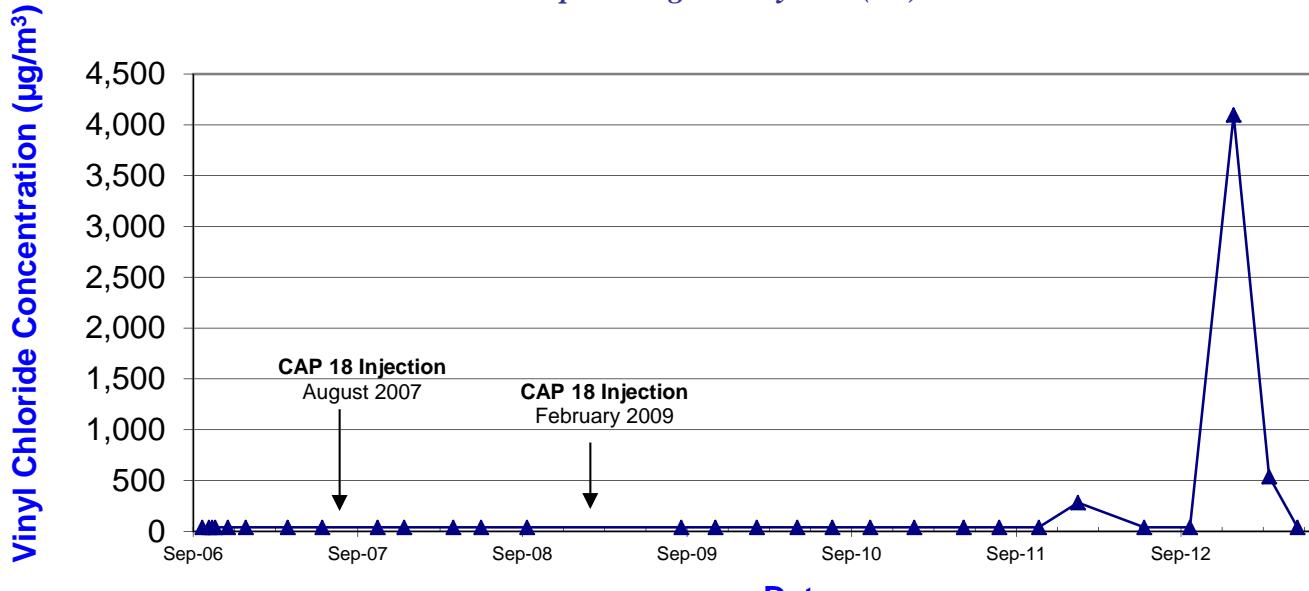
Mundell & Associates, Inc.
110 South Downey Avenue
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Project Number:
M01046
File:
MI Plaza charts
Date Prepared:
7/5/2013
Scale:
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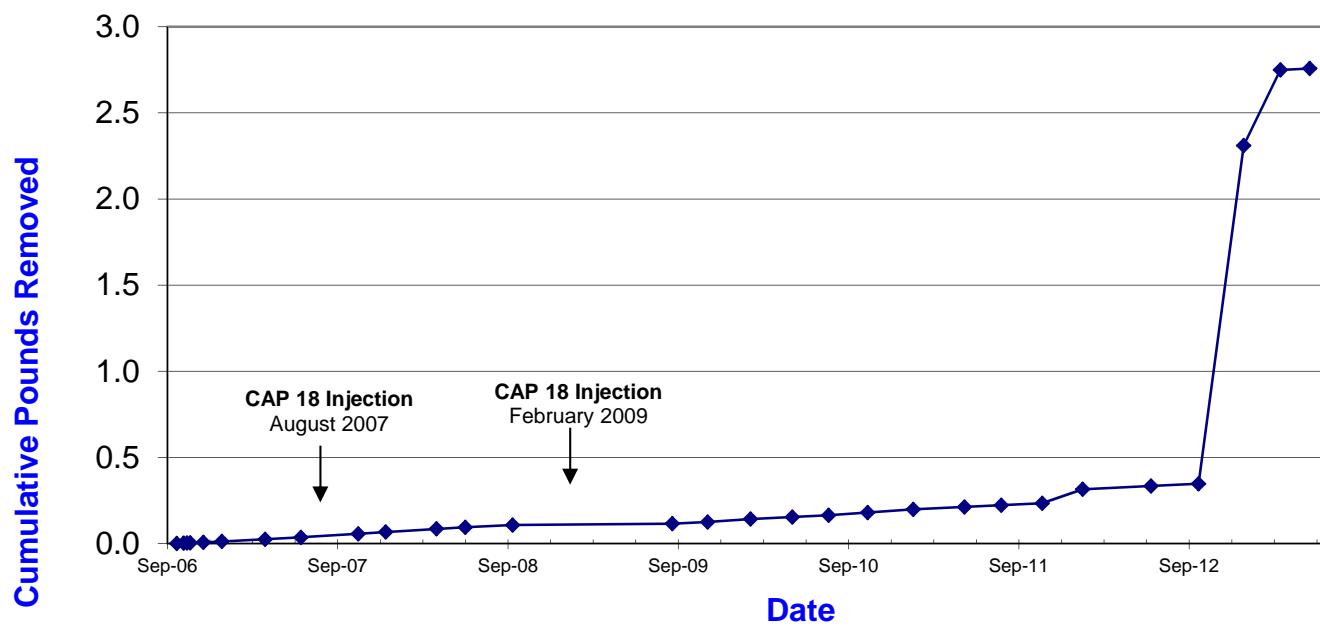
Vinyl Chloride Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-1 (Village Pantry - Unit 3801)
Second Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
25A

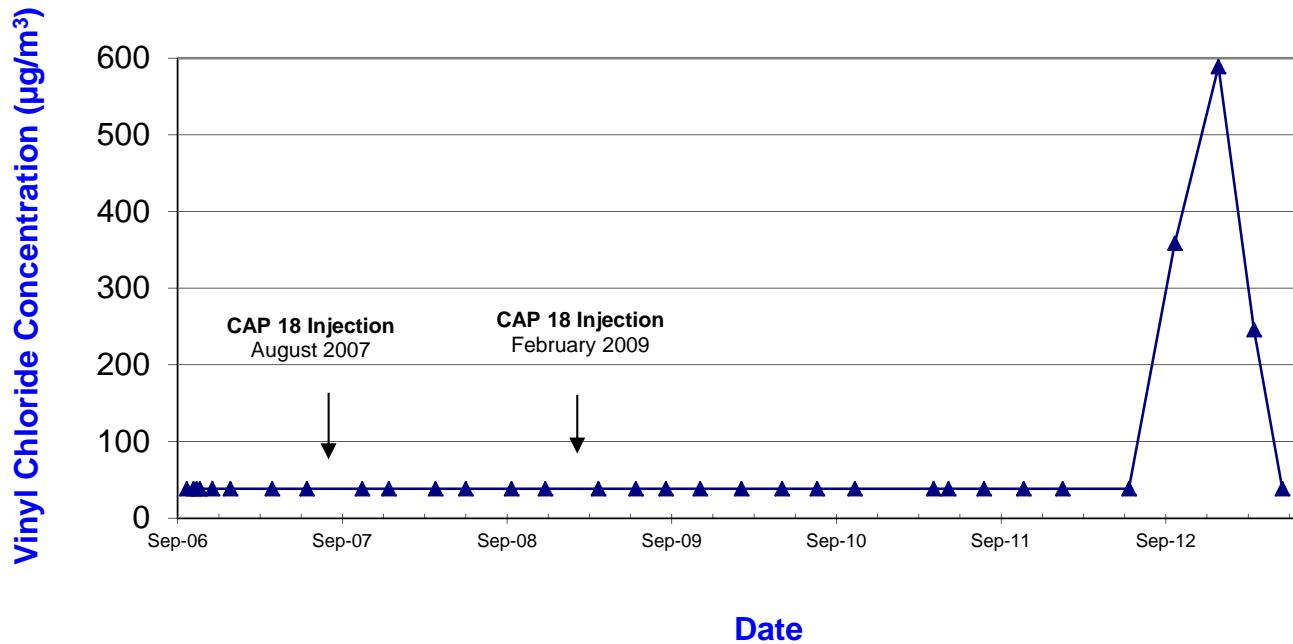
**Vinyl Chloride Vapor Concentrations Trend -
Unit 3811 Vapor Mitigation System (B2)**



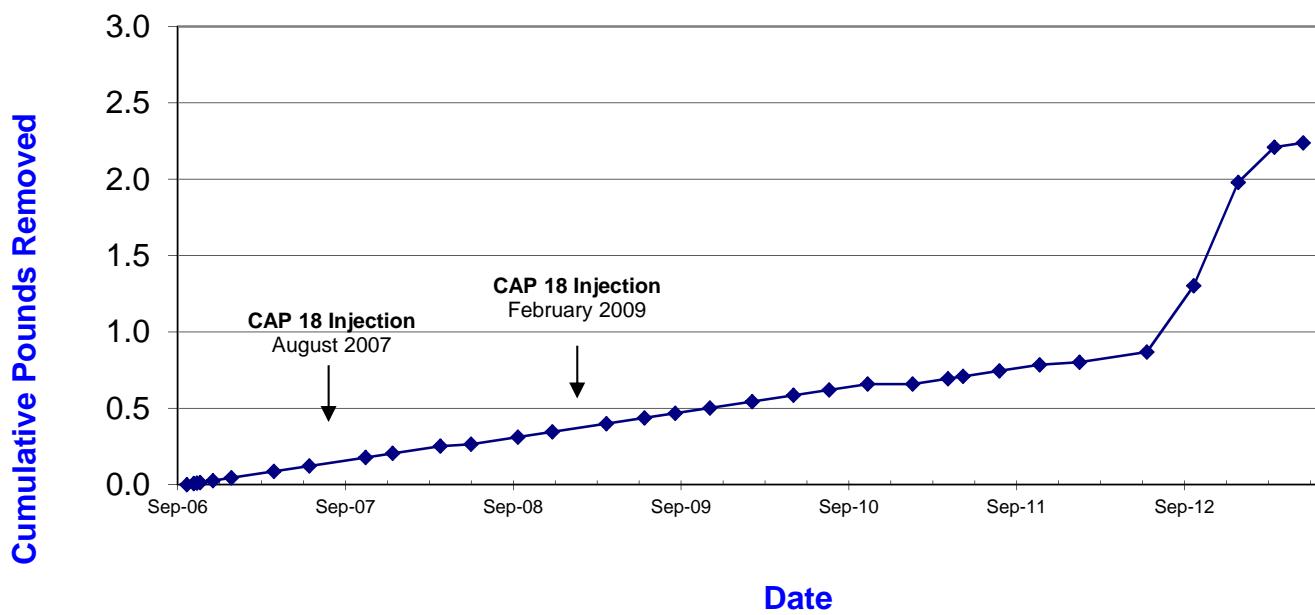
**Chemical Pounds Removed -
Unit 3811 Vapor Mitigation System (B2)**



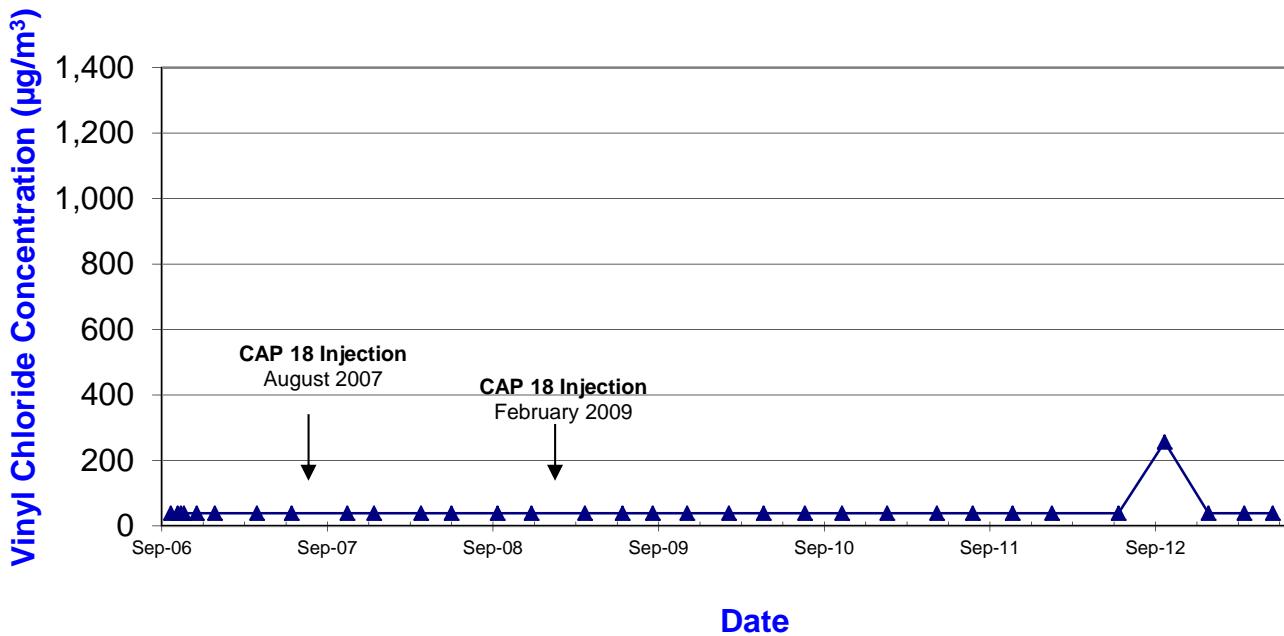
**Vinyl Chloride Vapor Concentrations Trend -
Unit 3819 Vapor Mitigation System (B3)**



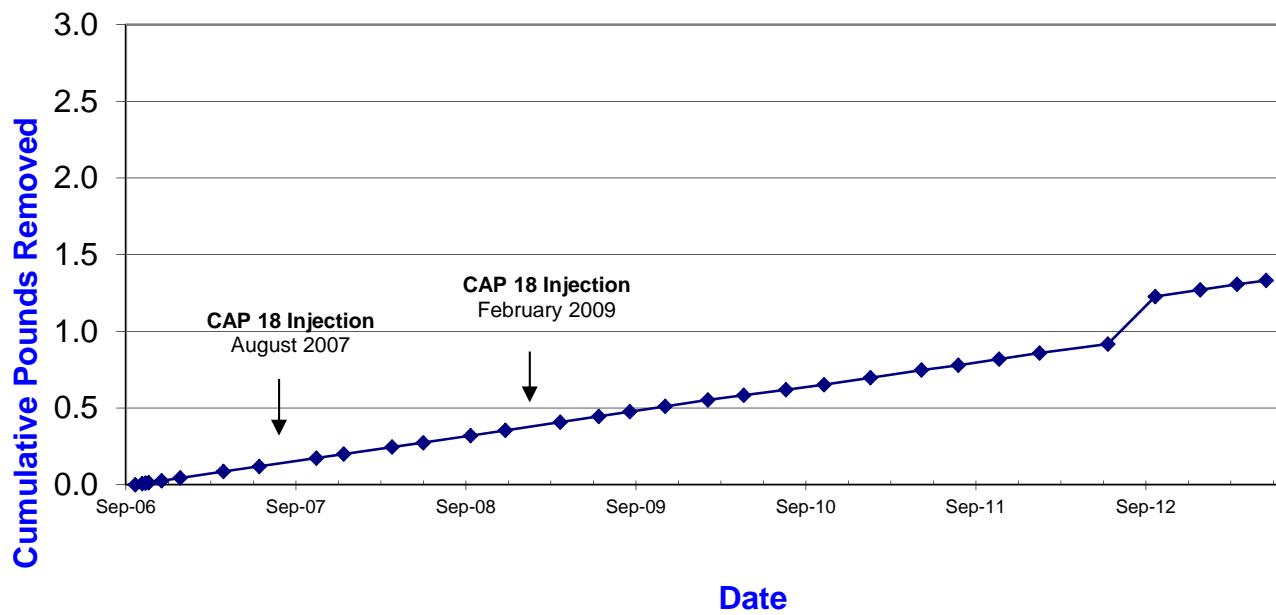
**Chemical Pounds Removed -
Mexican Store Vapor Mitigation System (B3)**



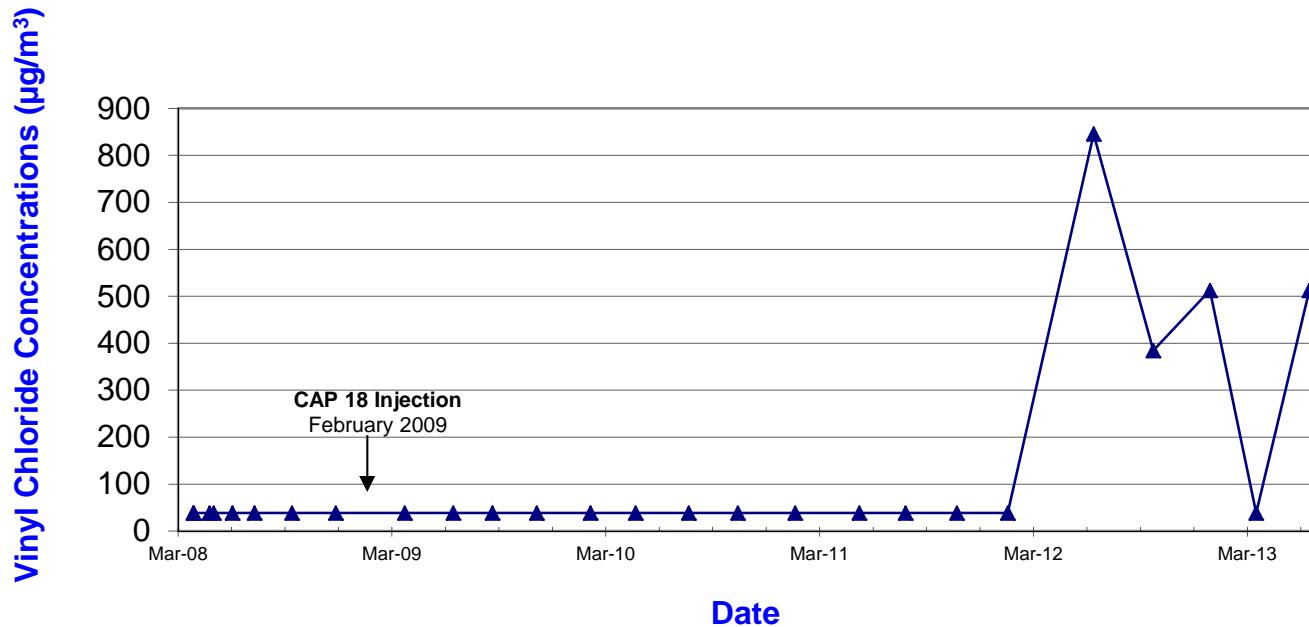
**Vinyl Chloride Vapor Concentrations Trend -
Laundromat Vapor Mitigation System (B4)**



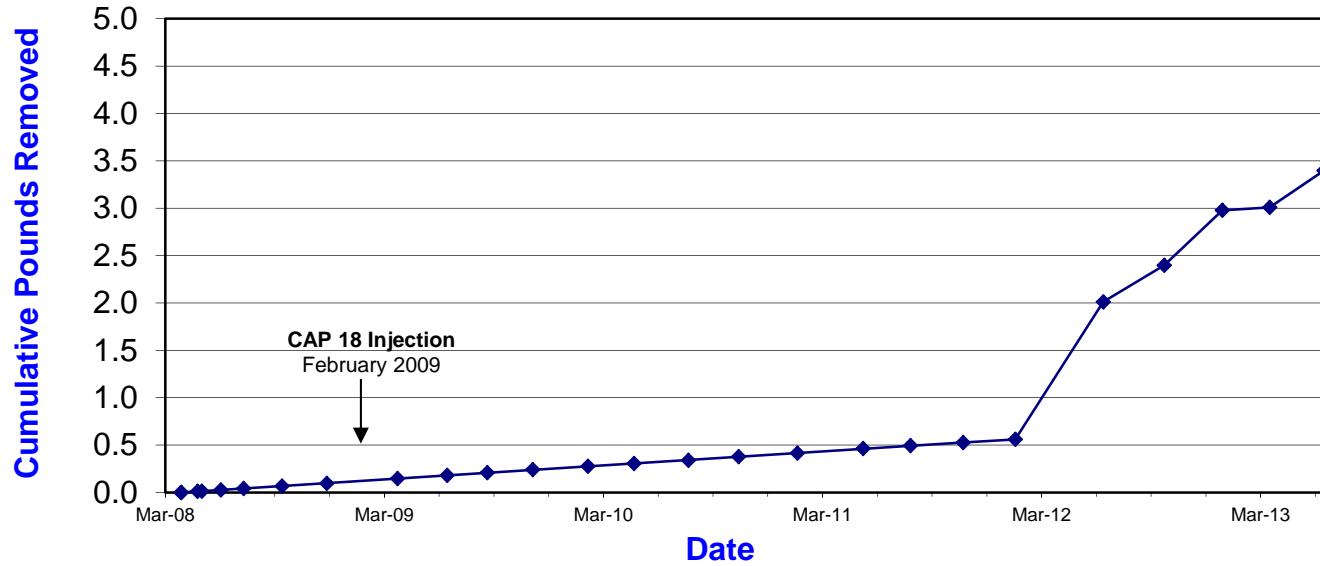
**Chemical Pounds Removed -
Laundromat Vapor Mitigation System (B4)**



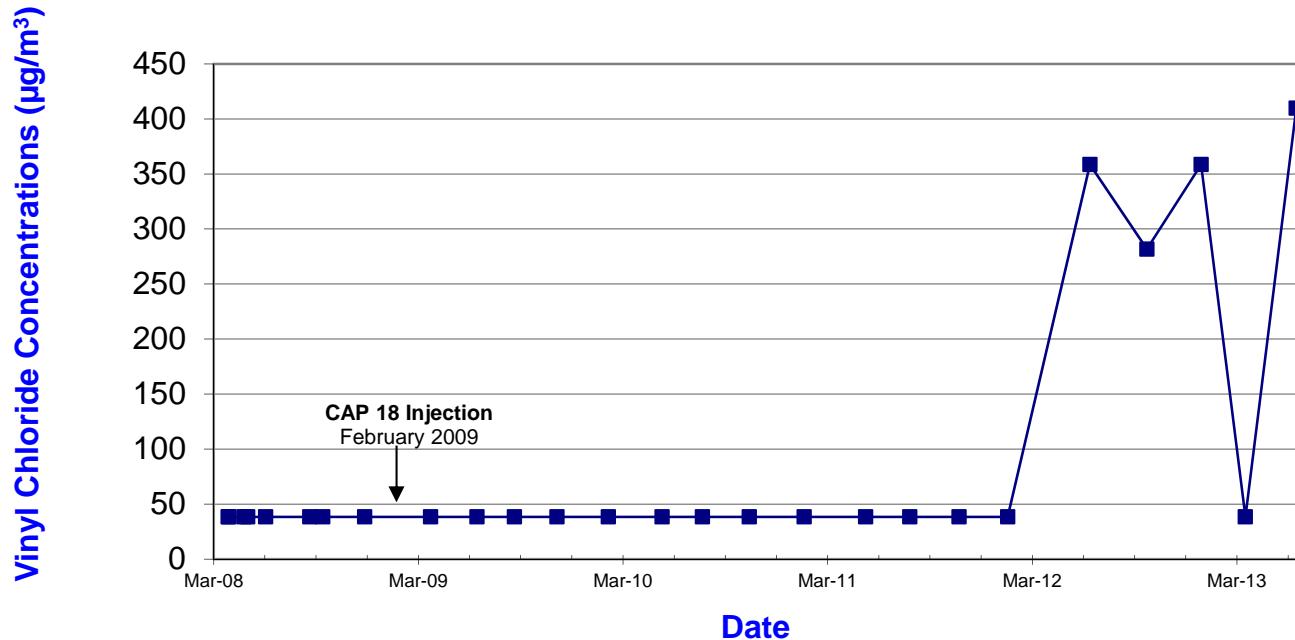
**Vinyl Chloride Vapor Concentrations Trend -
Apartment Building 1 Vapor Mitigation System (B5)**



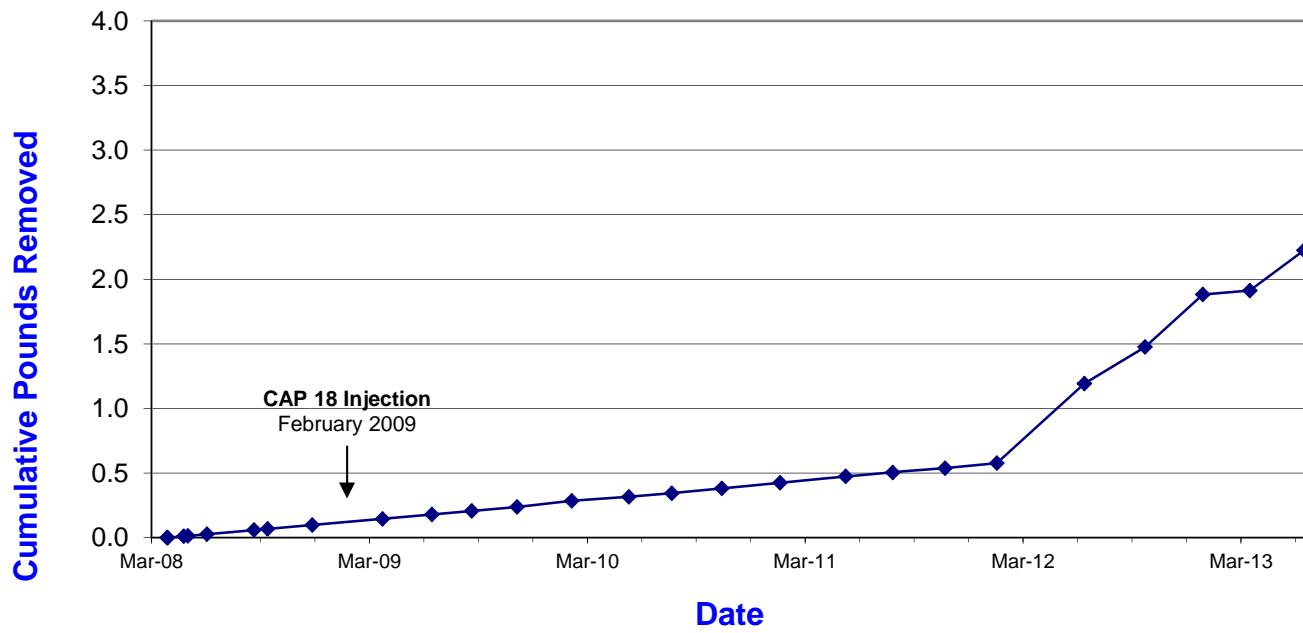
**Chemical Pounds Removed -
Apartment Building 1 Vapor Mitigation System (B5)**



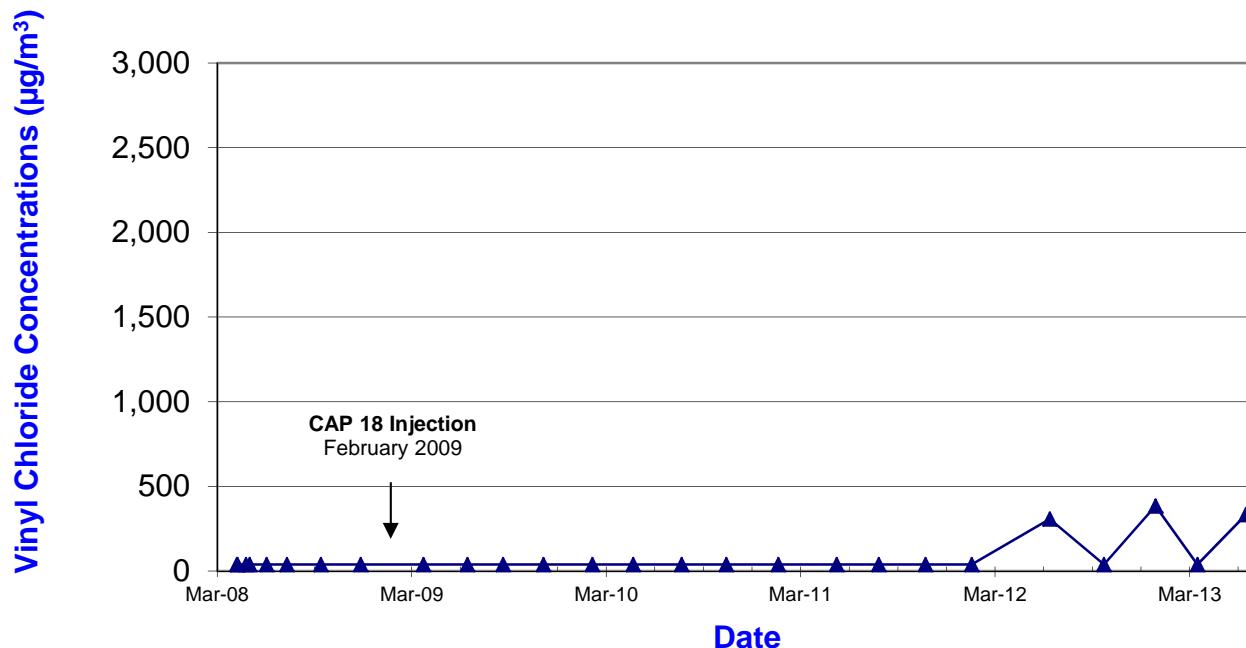
**Vinyl Chloride Vapor Concentrations Trend -
Apartment Building 6 Vapor Mitigation System (B6)**



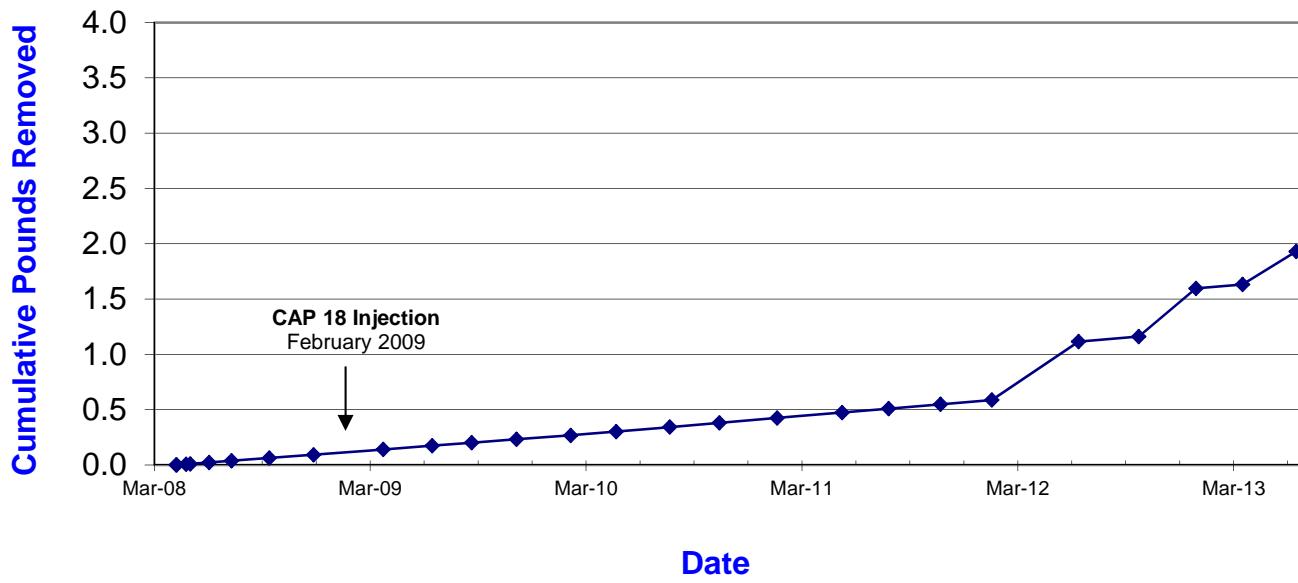
**Chemical Pounds Removed -
Apartment Building 6 Vapor Mitigation System (B6)**



**Vinyl Chloride Vapor Concentrations Trend -
Apartment Building 10 Vapor Mitigation System (B7)**



**Chemical Pounds Removed -
Apartment Building 10 Vapor Mitigation System (B7)**



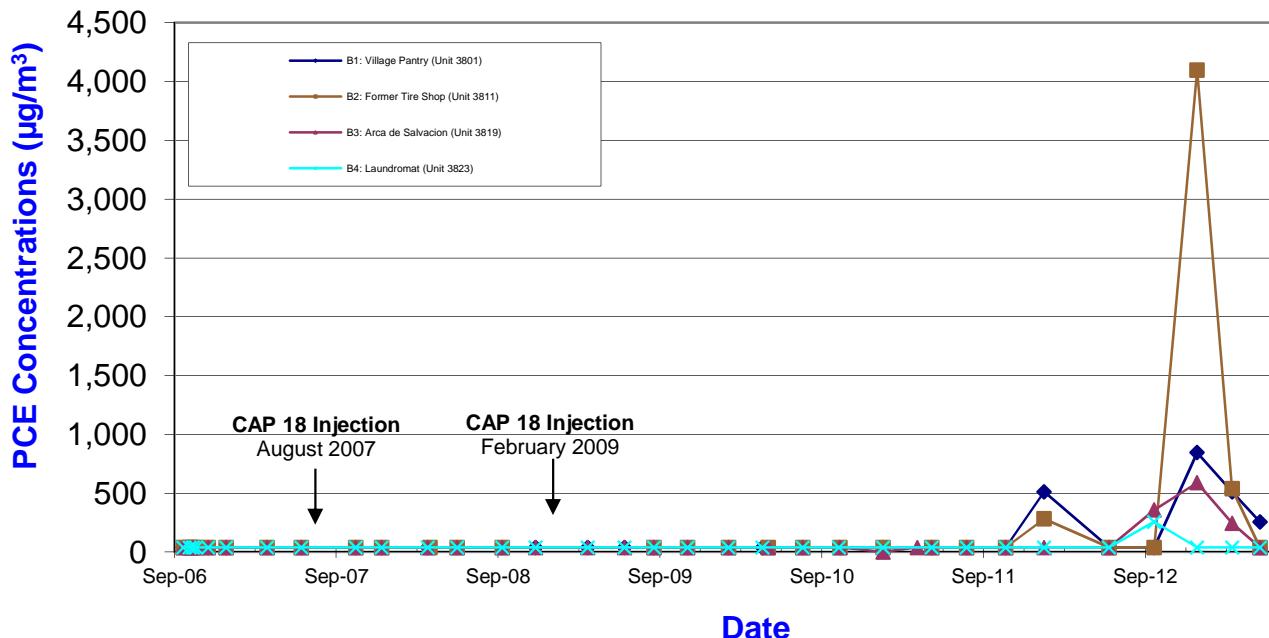
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, Indiana 46219
www.MundellAssociates.com

Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	7/5/2013
Scale:	no scale

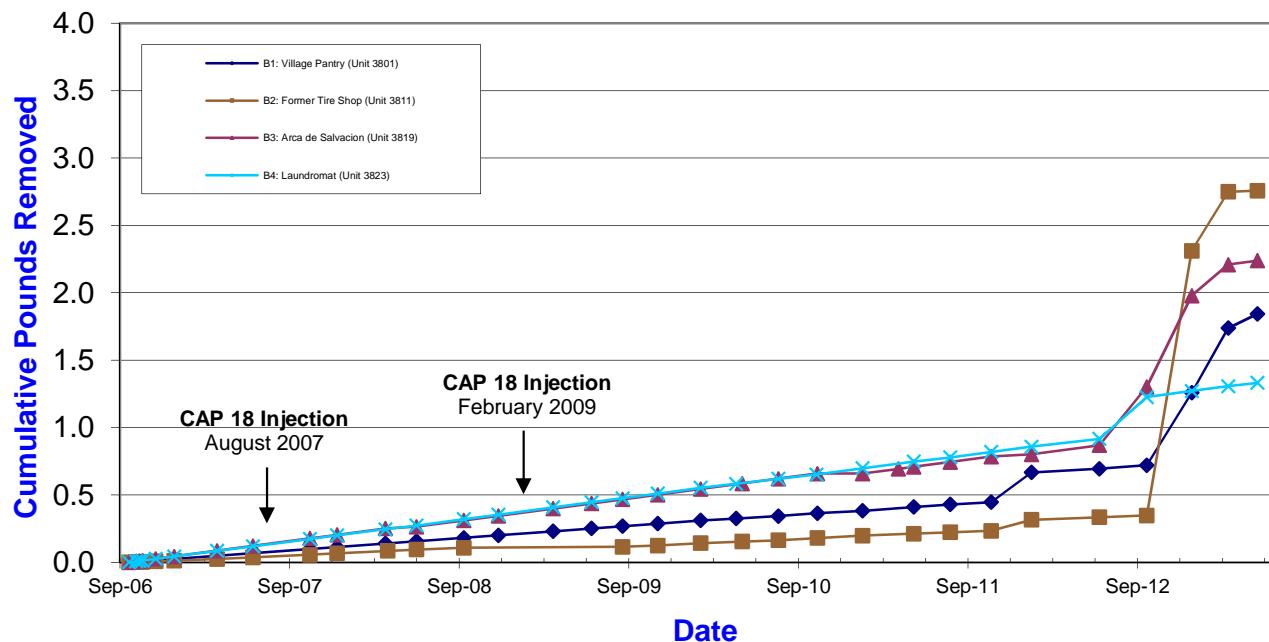
Vinyl Chloride Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-7 (Apartments, Bldg. 10)
Second Quarter 2013
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
25G

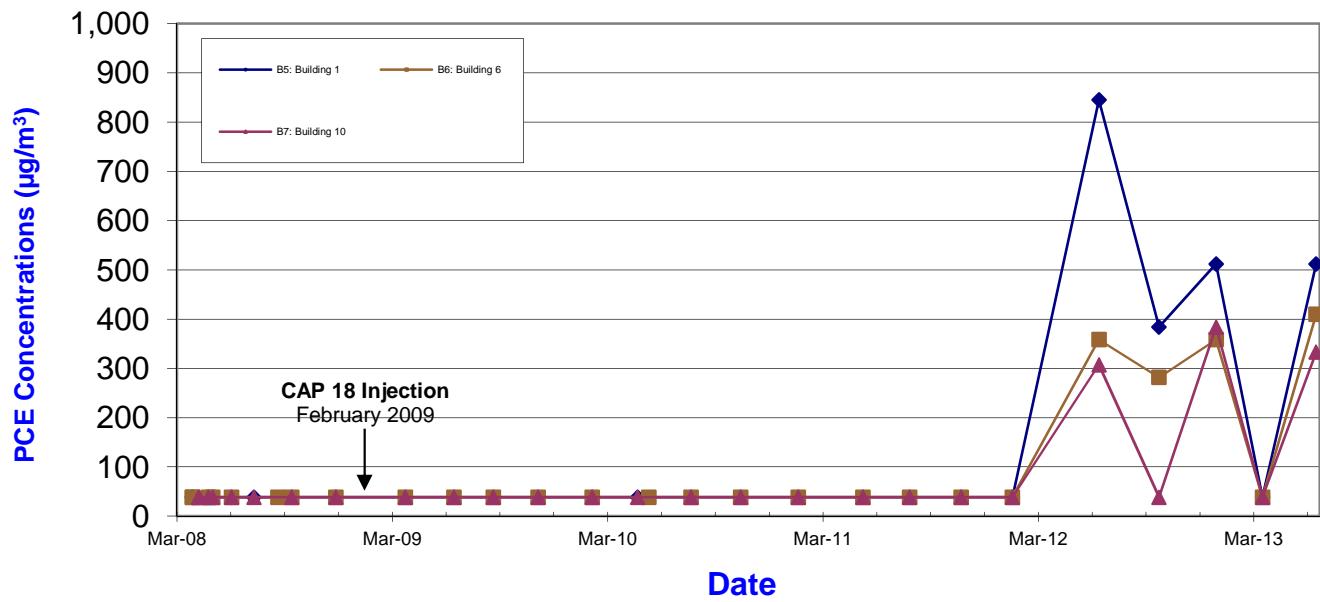
Vinyl Chloride Concentrations Trend - Plaza Vapor Mitigation Systems (B1-B4)



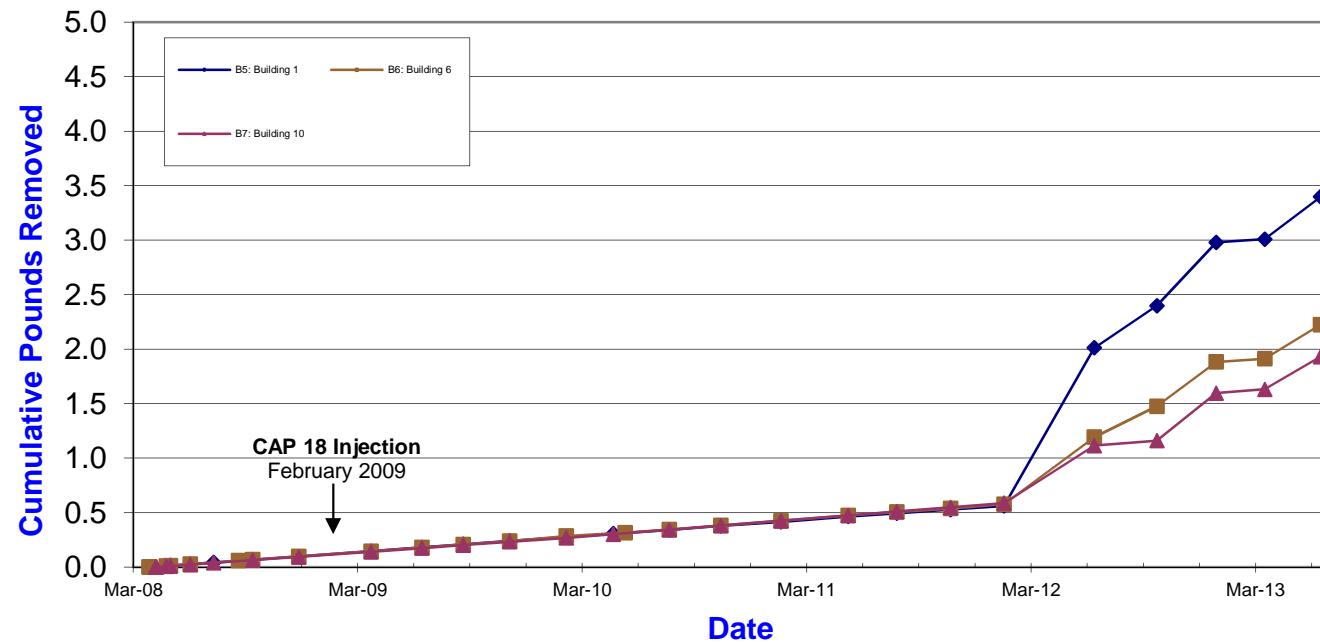
Vinyl Chloride Pounds Removed - Plaza Vapor Mitigation Systems (B1-B4)

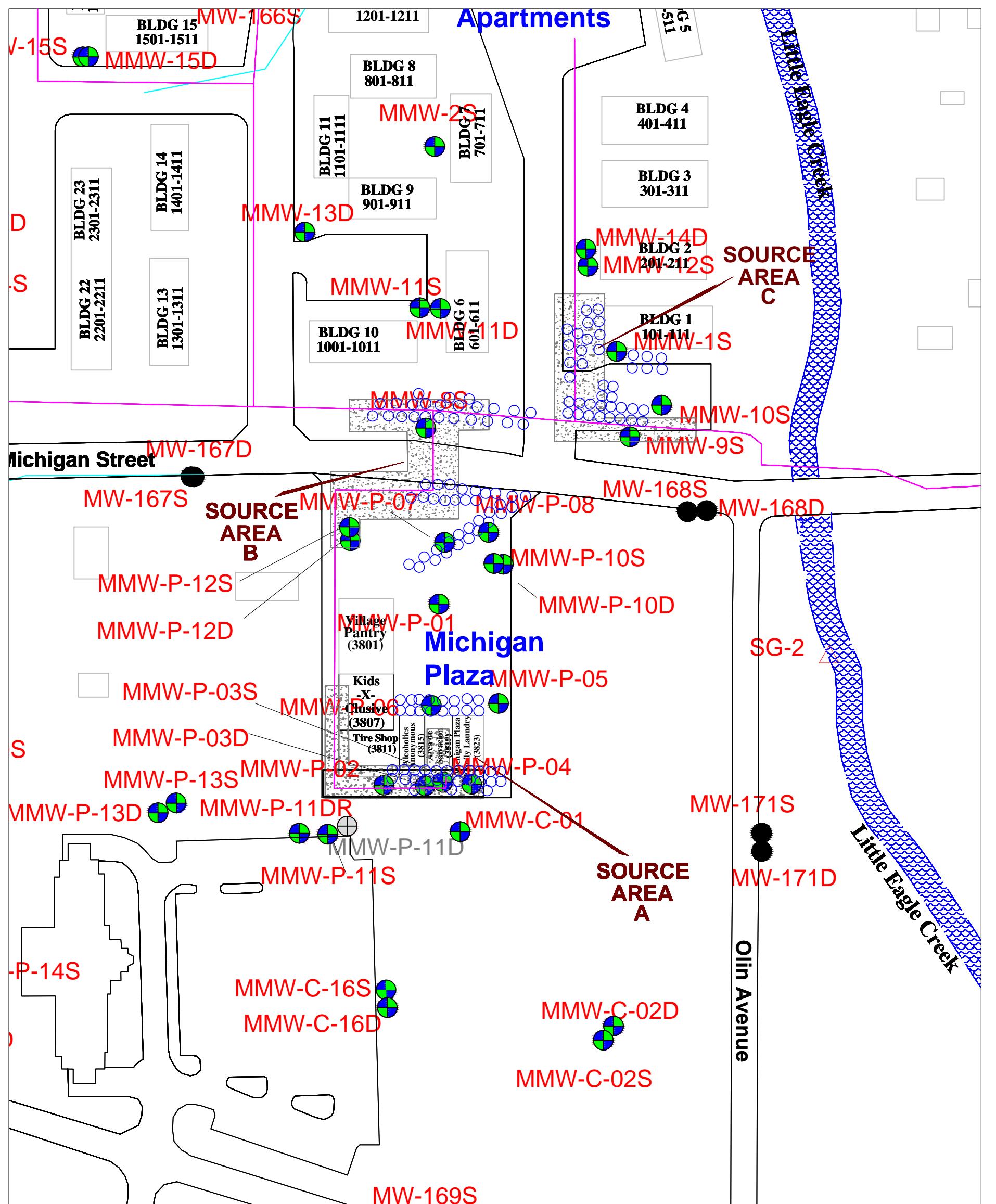


Vinyl Chloride Concentrations Trend - Apartment Vapor Mitigation Systems (B5-B7)



Vinyl Chloride Pounds Removed - Apartment Vapor Mitigation Systems (B5-B7)

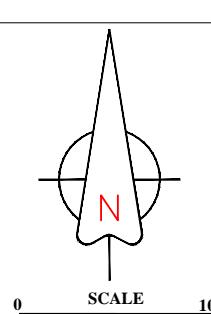




LEGEND

- | | |
|-------------------|--------------------------------------|
| — | Fence |
| MMW-P-06 | MUNDELL Monitoring Well |
| MW-160/ KB-90 | ENVIRON Monitoring Well/Soil Boring |
| MW-WES-O1A/ SB-02 | U.S. EPA Monitoring Well/Soil Boring |
| SG-1 | Stream Gauge Location |
| MGW-O1 | MUNDELL Soil Gas Well |
| — | Sanitary Sewer |
| — | Storm Sewer |

○ 2007 Injection Location

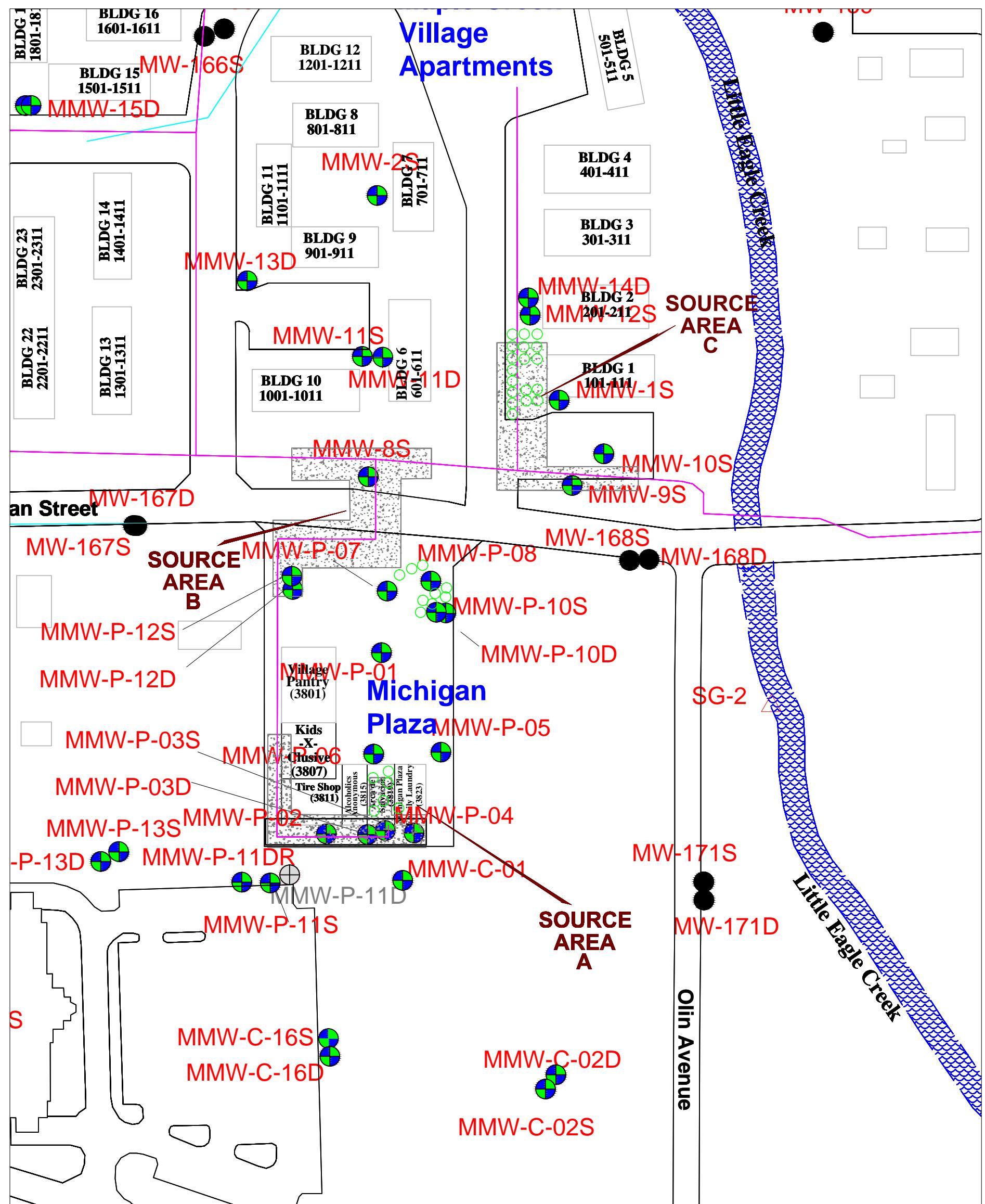


ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

Project Number: M01046
Drawing File: 2013 RWP
Date Prepared: 9-16-2013
Scale: 1"=100'

CAP18 INJECTION LOCATIONS - 2007
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

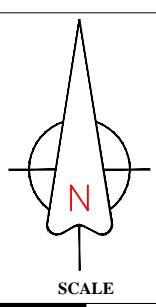
FIGURE
26a



LEGEND

GP-29

2009 Injection Location

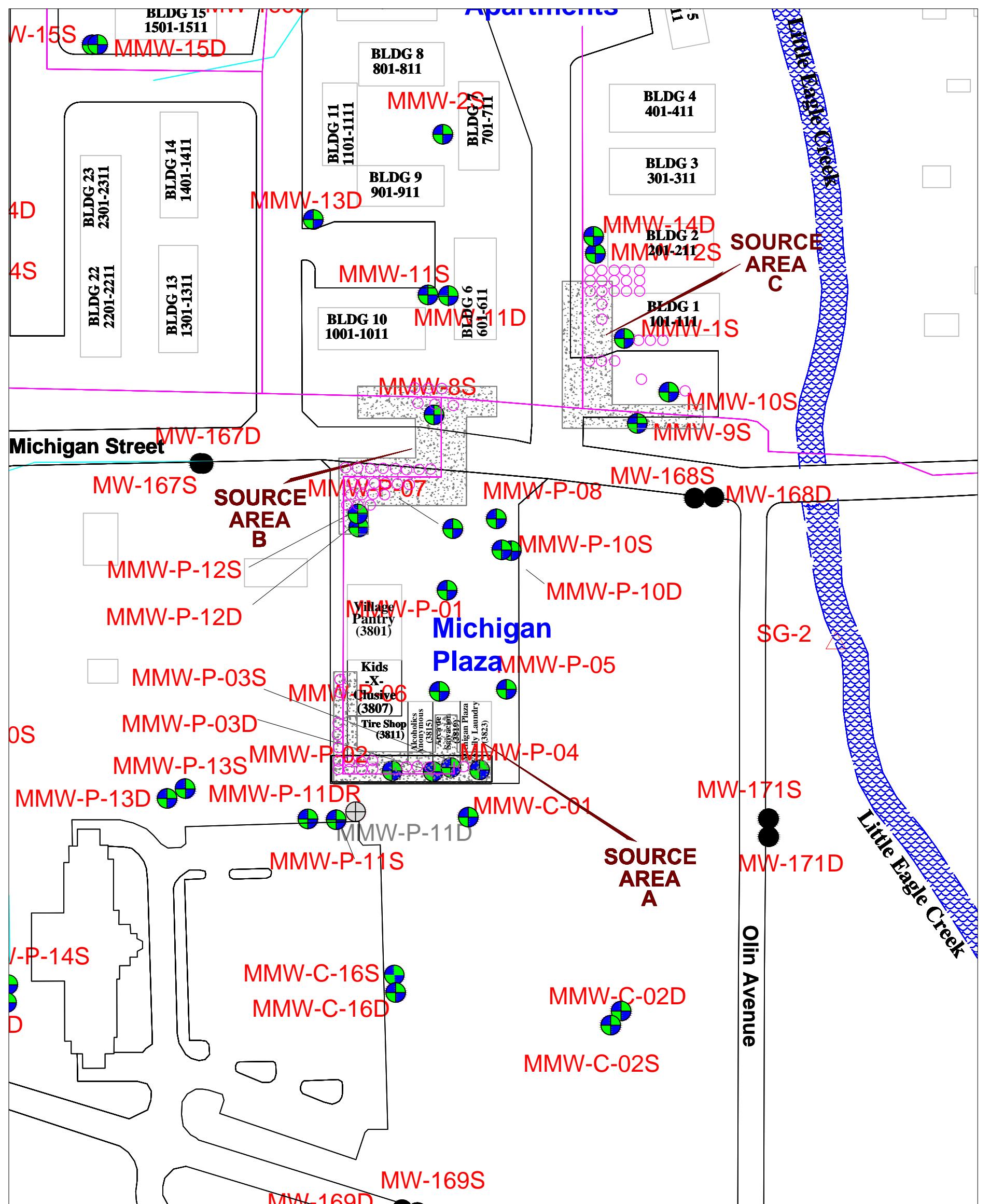


ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

Project Number:	M01046
Drawing File:	2013 RWP
Date Prepared:	8-19-2013
Scale:	1"=100'

CAP18 INJECTION LOCATIONS - 2009
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

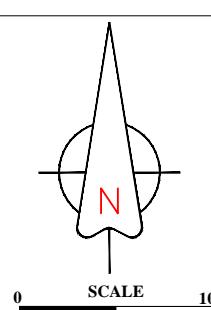
FIGURE
26b



LEGEND

- | | |
|-------------------------|--------------------------------------|
| Fence | Sanitary Sewer |
| MUNDELL Monitoring Well | Storm Sewer |
| MW-160/ KB-90 | ENVIRON Monitoring Well/Soil Boring |
| MW-WES-O1A/ SB-02 | U.S. EPA Monitoring Well/Soil Boring |
| SG-1 | Stream Gauge Location |
| MGW-O1 | MUNDELL Soil Gas Well |

○ 2013 Injection Location

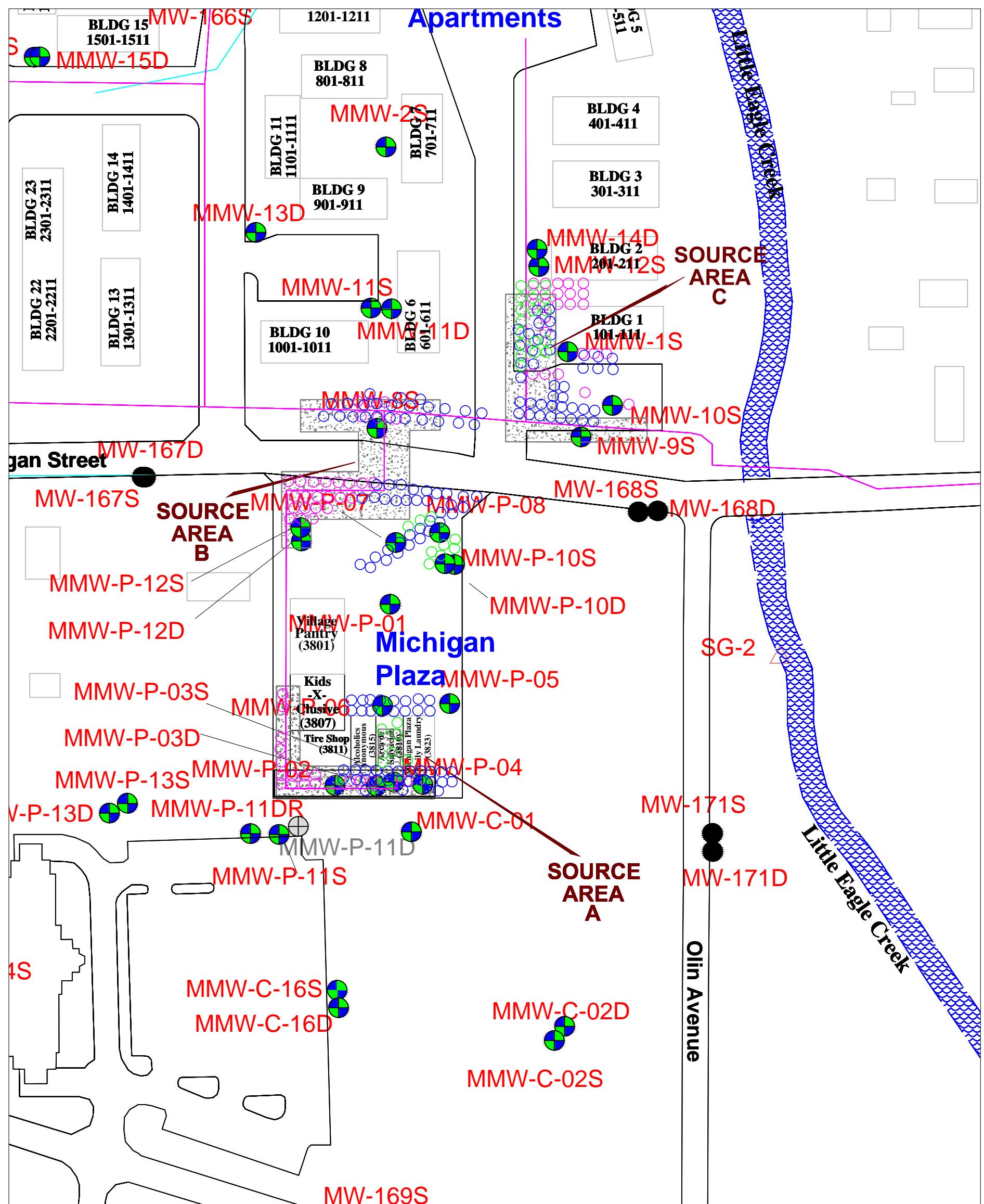


ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

CAP18 INJECTION LOCATIONS - 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

26c



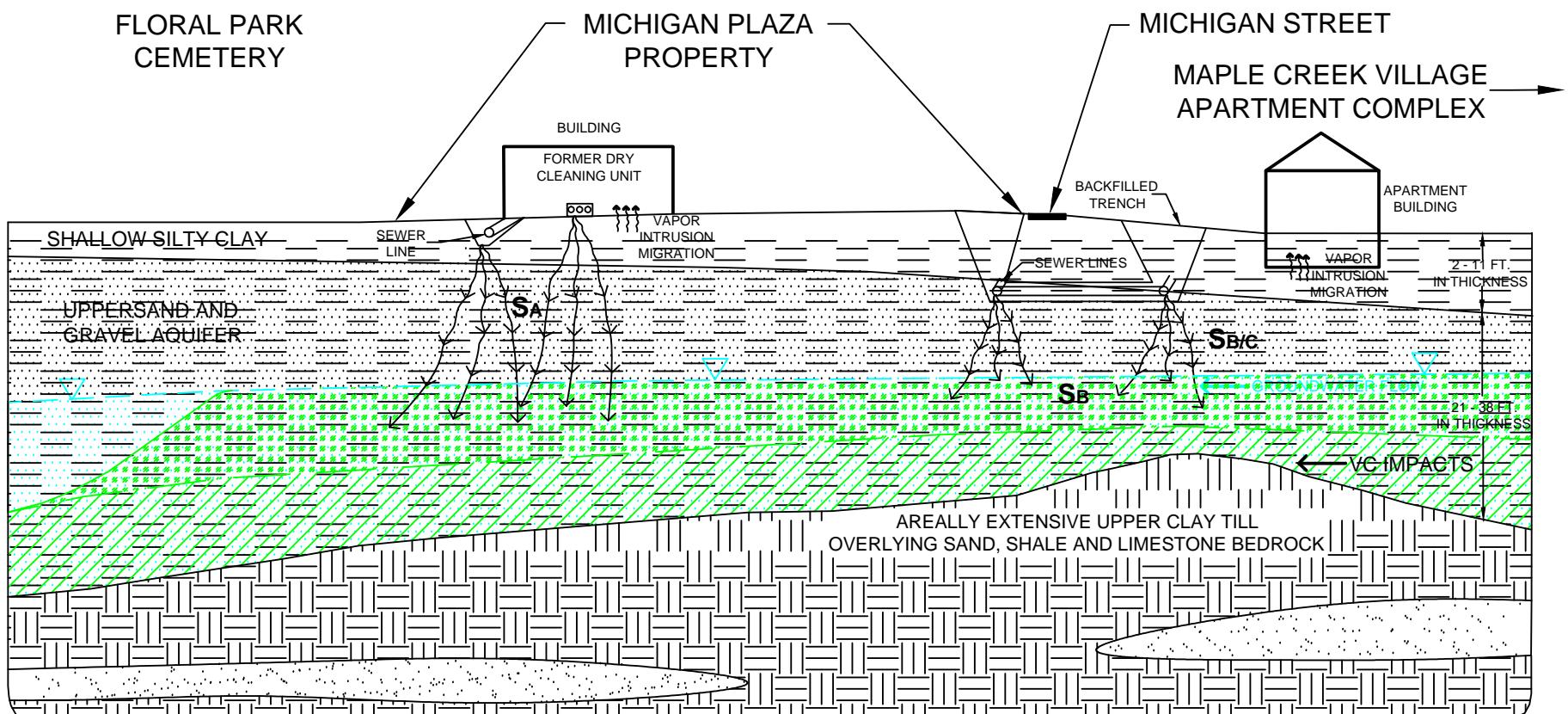
ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
 Project No. 2829
 March 13, 2002

CAP18 INJECTION LOCATIONS - CUMULATIVE
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
26d

SOUTH

NORTH



▽ Top of Groundwater Table

▨ Shallow Impacted Groundwater

SA = Source Area A

▨ Deep Impacted Groundwater

SB = Source Area B

▨ Deep Sand Below Till

Sc = Source Area C

✗ PCE Release Pathway

REV.	DATE	DESCRIPTION	BY	APPR.	PROJECT NO.: M01046	FILE NO.: Site Model.dwg
					DRAWING: Not to scale	PLOT SIZE: ANSI A
					DRAFTED BY: GJH	DATE: 2/01/13
					CHECKED BY: JAM	DATE: 2/04/13
					APPROVED BY: JAM	DATE: 9/17/13

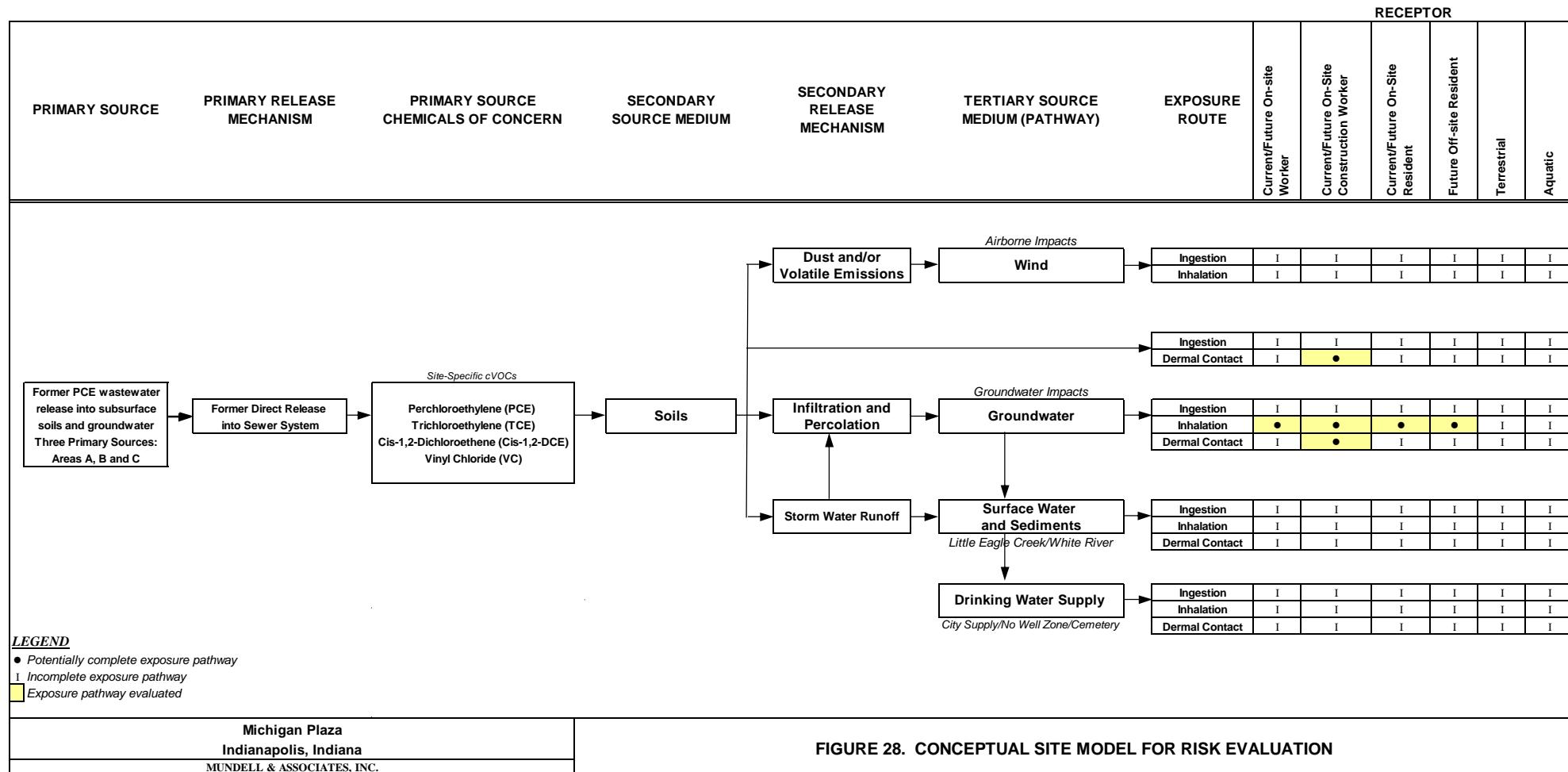
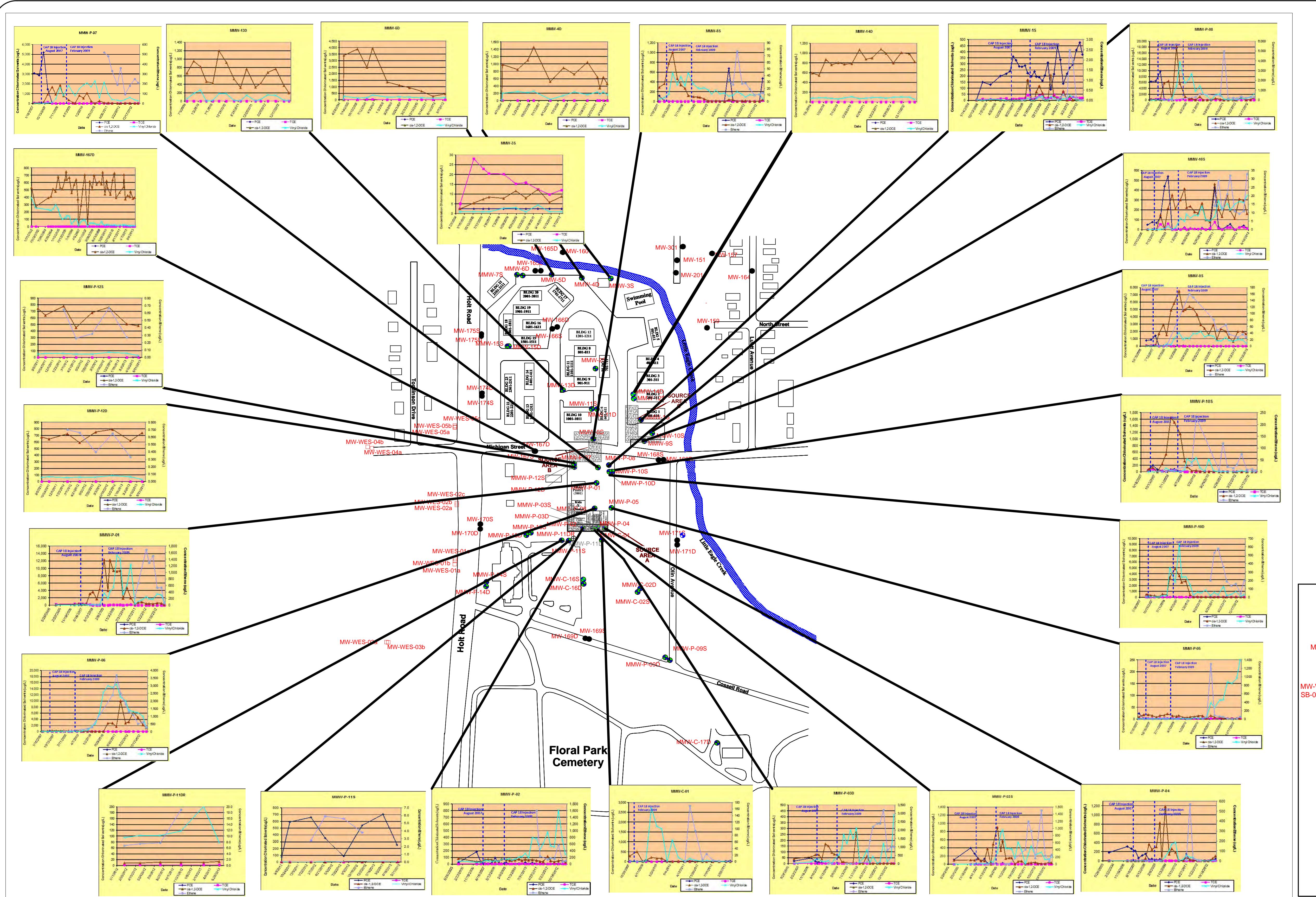


FIGURE 28. CONCEPTUAL SITE MODEL FOR RISK EVALUATION

Michigan Plaza
Indianapolis, Indiana
MUNDELL & ASSOCIATES, INC.



Mundell & Associates
110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065
www.MundellAssociates.com

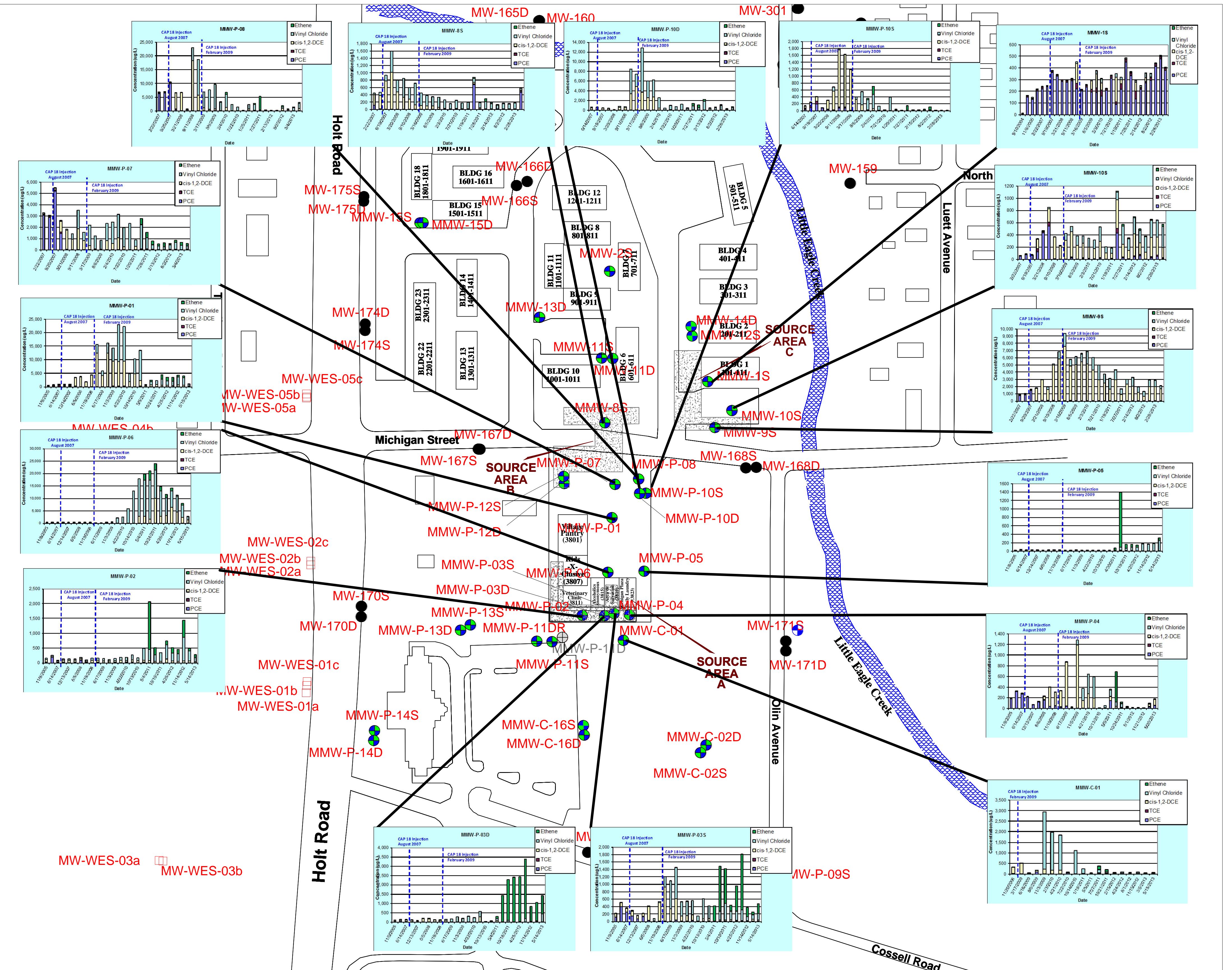
REV.	DATE	DESCRIPTION	BY	APPR.	PROJECT NO.: M01046	FILE NO.:GW Quarterly.DWG
					DRAWING: 1"=200'	PLOT SIZE: ANSI D
					DRAFTED BY: MTB	DATE: 6/7/13
					CHECKED BY: SVE	DATE: 6/7/13
					APPROVED BY: MEB	DATE: 9/15/13

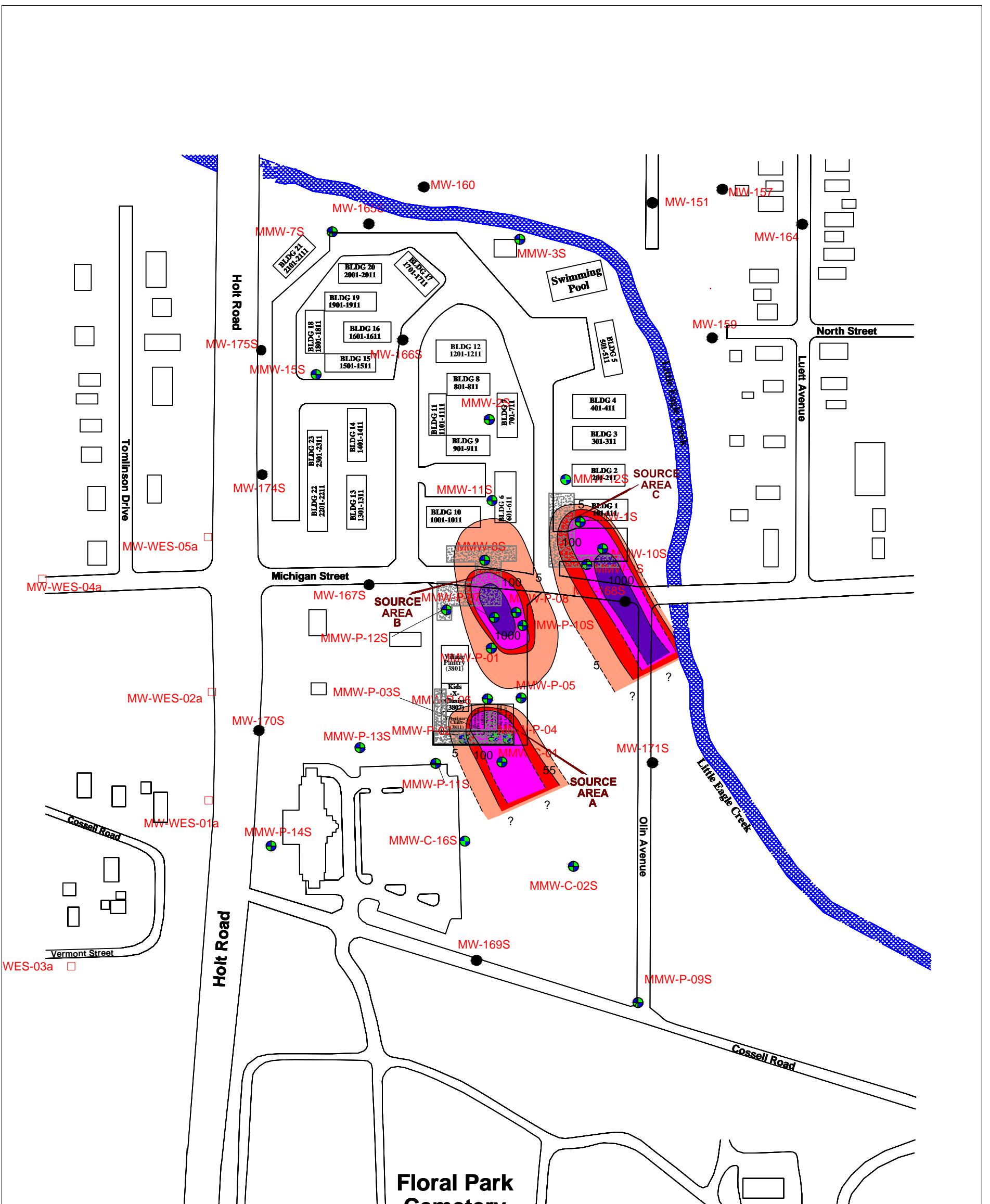
Indicator Compound Trends in Groundwater

Michigan Plaza
3801 - 3823 Michigan Street
Ann Arbor, MI 48105

FIGURE

29





MMW-P-06 ● MUNDELL Monitoring Well

MW-160 ● ENVIRON Monitoring Well

MW-WES-01A □ U.S. EPA Monitoring Well

>1000 ug/L

>100 ug/L

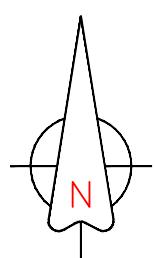
>55 ug/L

>5 ug/L

LEGEND

Note: Contours based on available groundwater data associated with 2005 FSI activities.

SCALE 200
feet



Project Number:

M01046

Drawing File:

2Q13 QMR

Date Prepared:

6-7-13

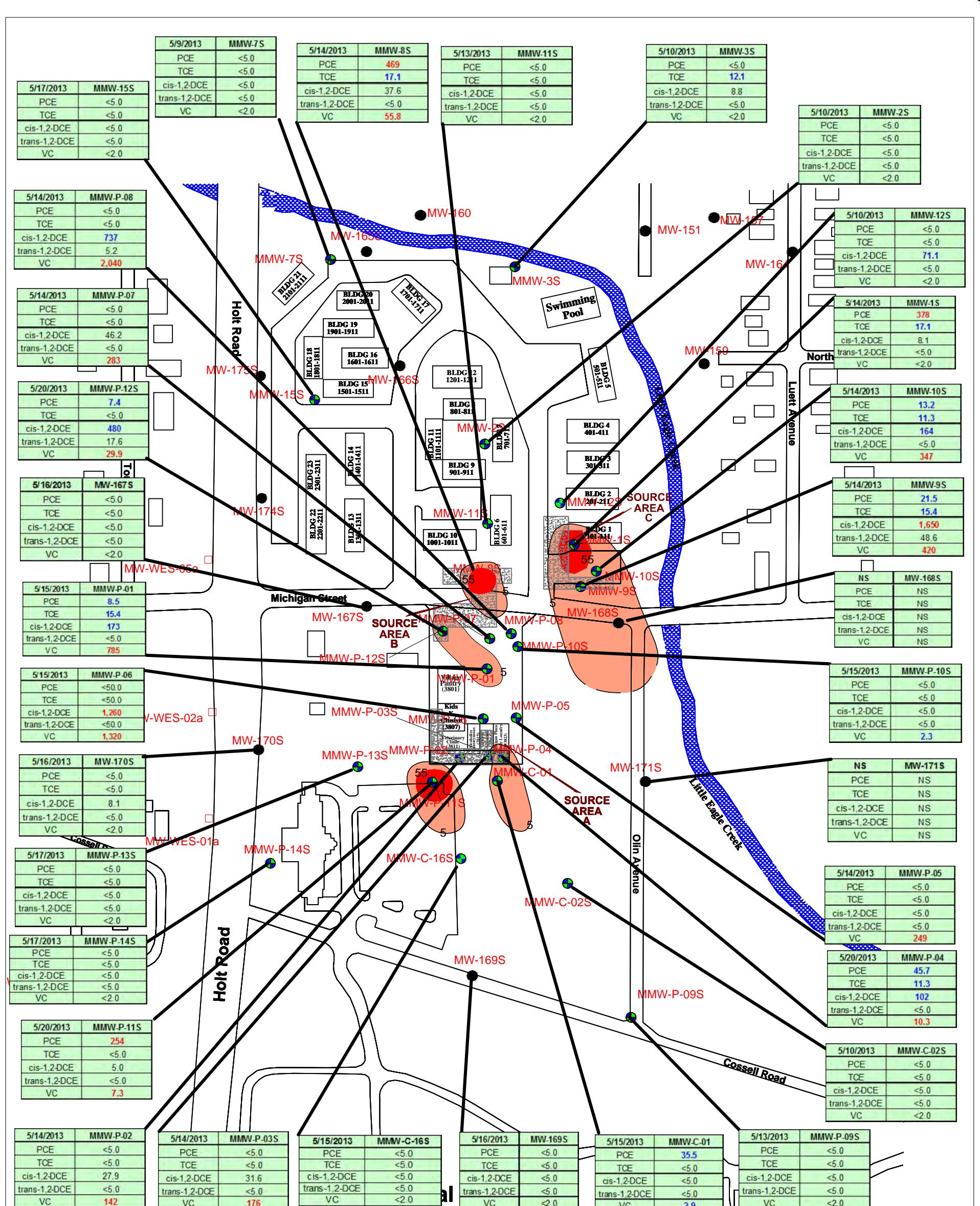
Scale:

1"=200'

PCE IN GROUNDWATER ANALYTICAL MAP - SHALLOW- SEPT-NOV 2005 (PRE-INJECTION)

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
31a



MMW-P-06 MIUNDELL Monitoring Well

MW-160 ● ENVIRON Monitoring Well

MW-WES-01A U.S. EPA Monitoring Well

>55 uq/L

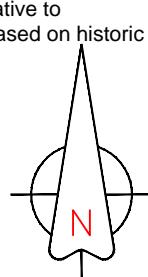
>5 ug/L

NS = Not Sampled

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2
5/14/2013	MMW-1S				
PCE	378				
TCE	17.1				
cis-1,2-DCE	8.1				
trans-1,2-DCE	<5.0				

All Values Over IDEM RISC Industrial Default Cleanup Levels in ug/l
 All Values Over IDEM RISC Residential Default Cleanup Levels/2
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 cis-1,2-DCE = cis-1,2-Dichloroethene
 trans-1,2-DCE = trans-1,2-Dichloroethene
 ug/l = micrograms per liter
 NS = Not Sampled
 All analytical results presented in micrograms per liter (ug/l)

Note: Contour positions relative to MW-168S and MW-171S based on historic MLINDELL data



0 SCALE 200

 Mundell Consulting Professionals
for the Earth and the Environment

110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax
317-630-9065

Project Number:	M01046
Drawing File:	2Q13 QMR
Date Prepared:	6-7-13
Scale:	

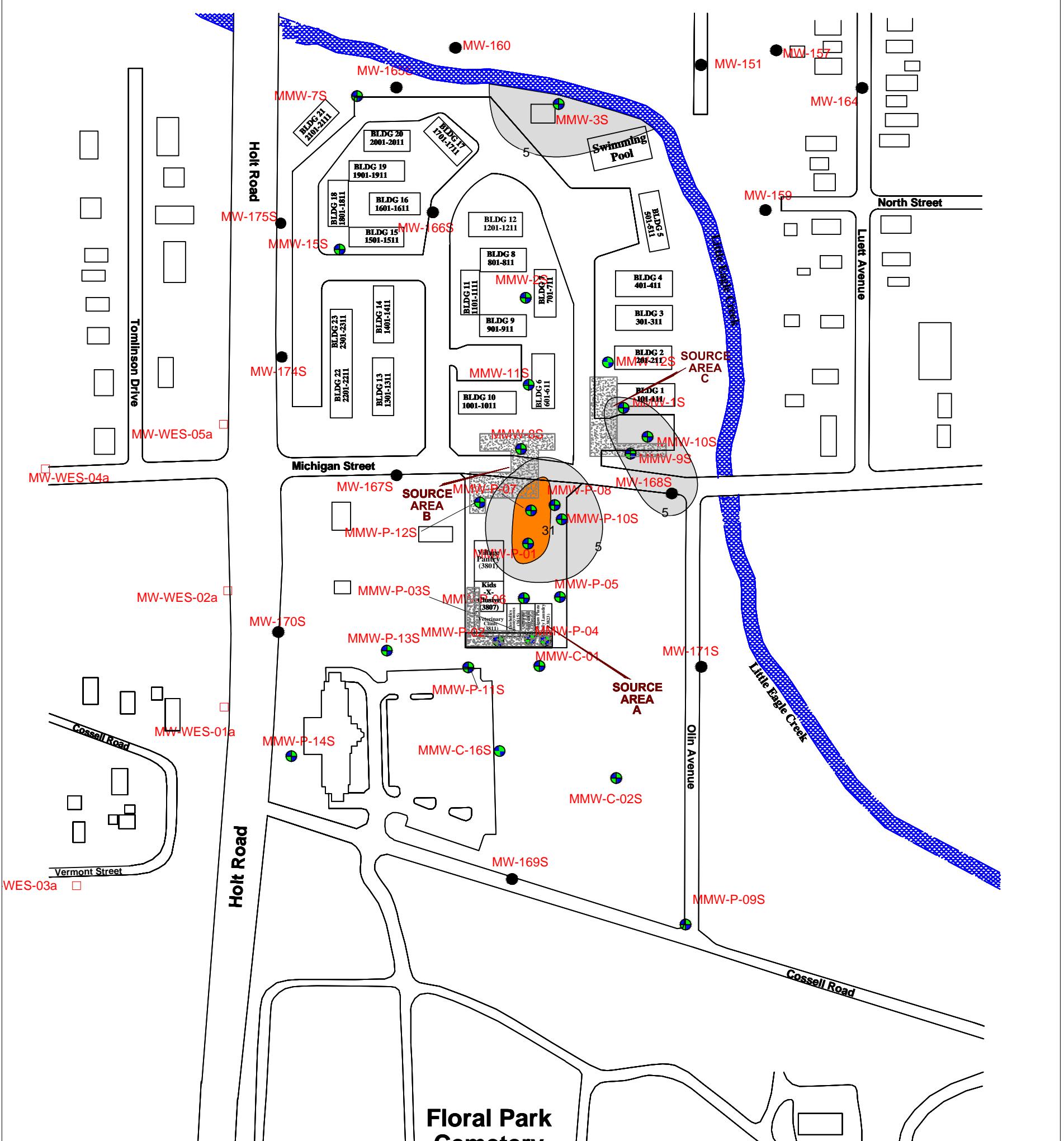
PCE IN GROUNDWATER ANALYTICAL MAP -
SHALLOW - 2ND QUARTER 2013

SHALLOW - 2ND QUARTER 201

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE

31b

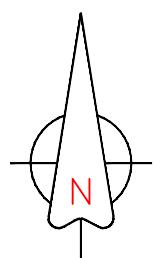


LEGEND

- MMW-P-06 (green circle) MUNDELL Monitoring Well
- MW-160 (black dot) ENVIRON Monitoring Well
- MW-WES-01A (red square) U.S. EPA Monitoring Well
- >31 ug/L (orange square)
- >5 ug/L (grey square)

Note: Contours based on available groundwater data associated with 2005 FSI activities.

SCALE 200
feet

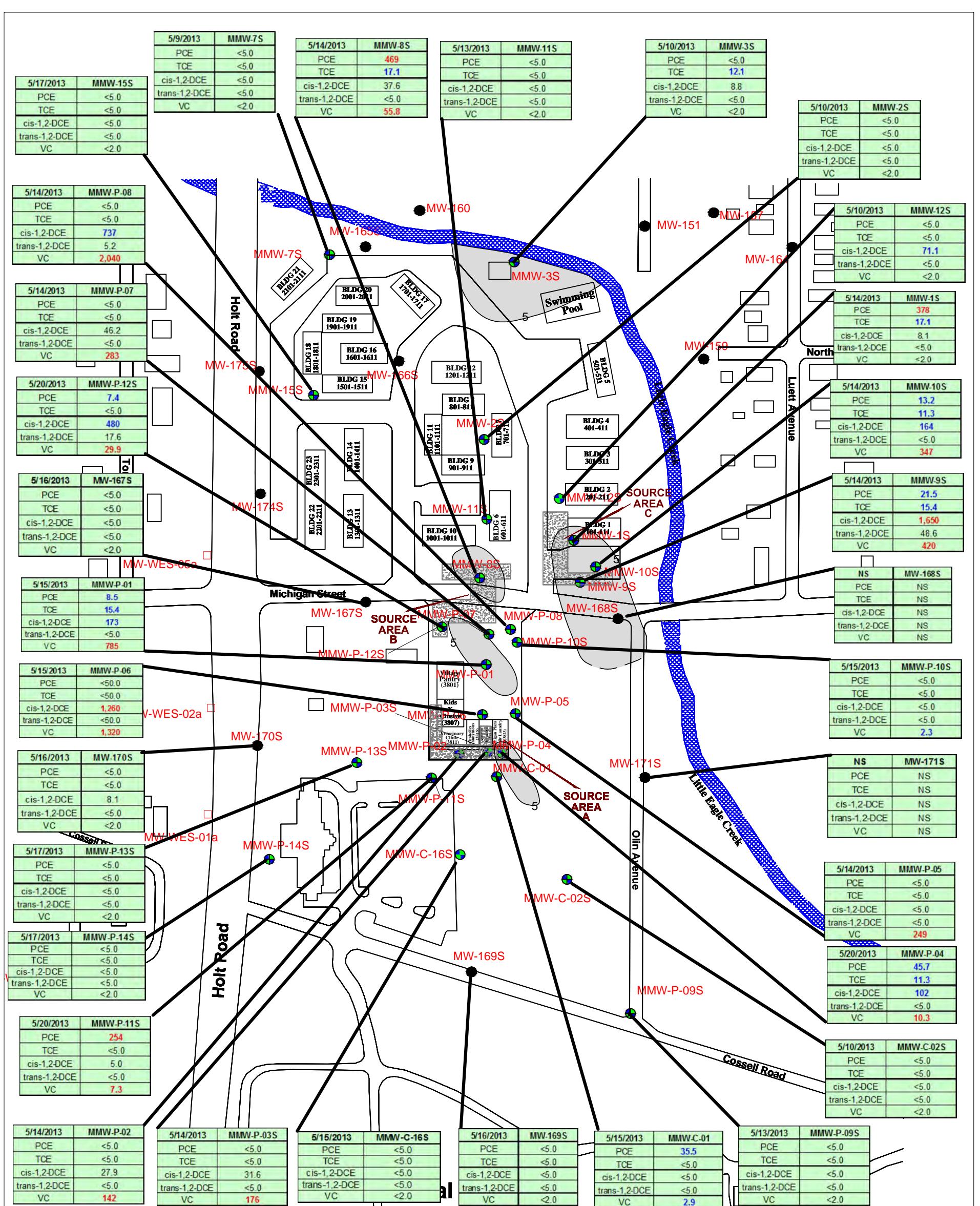


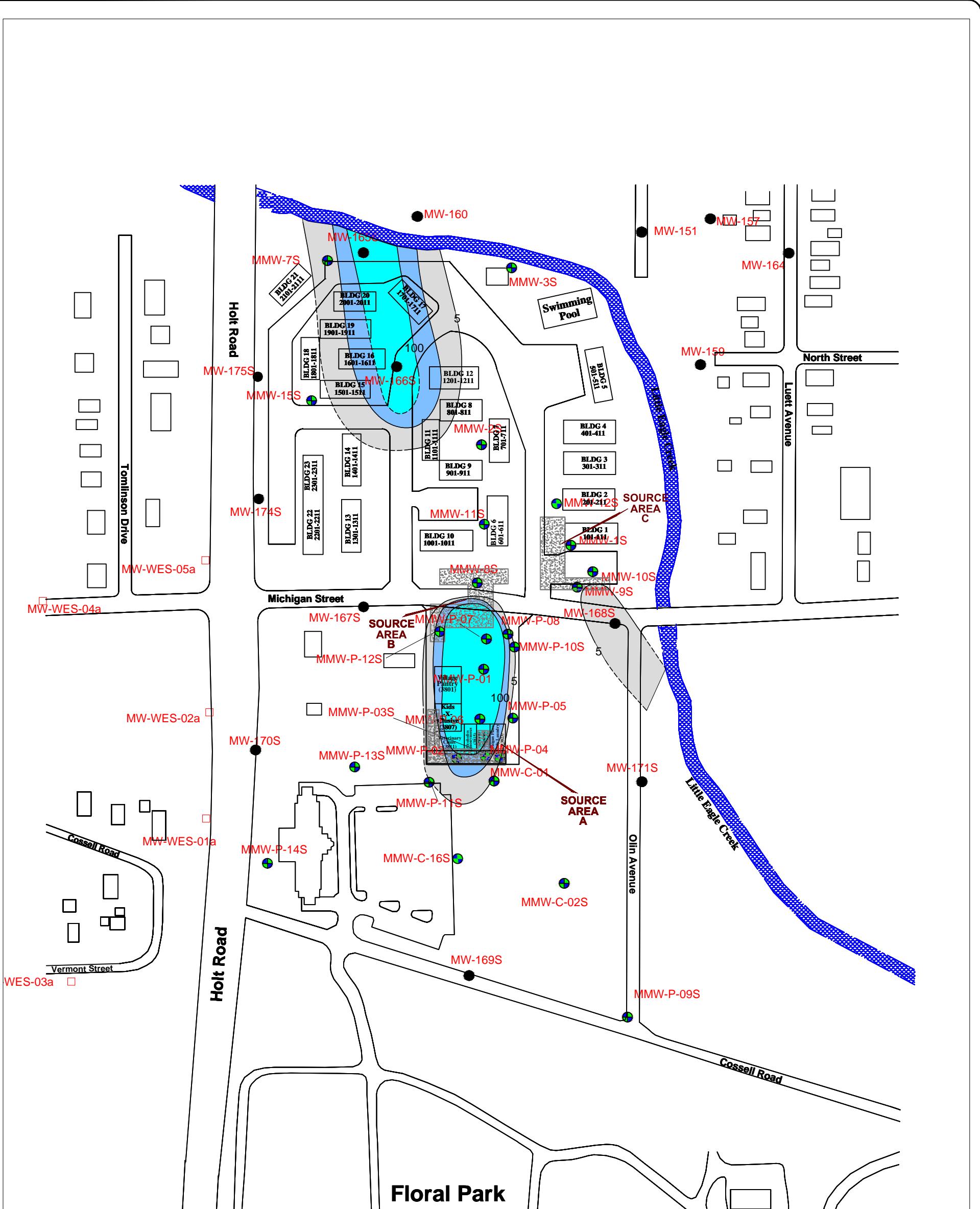
Project Number:	M01046
Drawing File:	2Q13 QMR
Date Prepared:	6-7-13
Scale:	1"=200'

TCE IN GROUNDWATER ANALYTICAL MAP - SHALLOW - SEPT-NOV 2005 (PRE INJECTION)

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
31c





MMW-P-06 MUNDELL Monitoring Well

MW-160 ENVIRON Monitoring Well

MW-WES-01A U.S. EPA Monitoring Well

>1000 ug/L

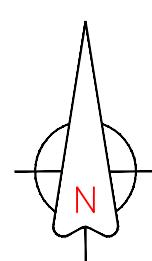
>100 ug/L

>70 ug/L

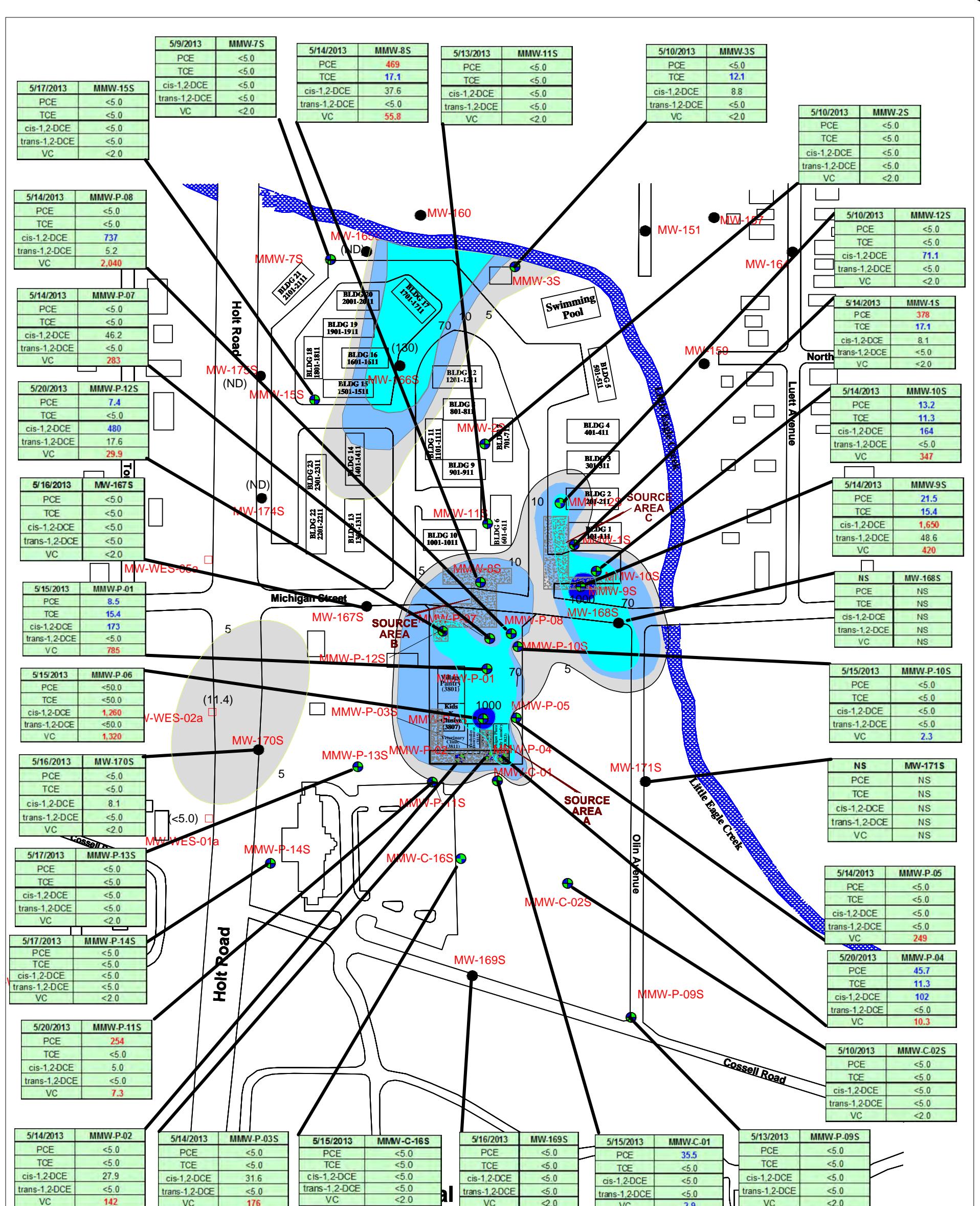
>5 ug/L

LEGEND

Note: Contours based on available groundwater data associated with 2005 FSI activities.



0 SCALE 200
feet



MMW-P-06 MIUNDELL Monitoring Well

MW-160 ● ENVIRON Monitoring Well

MW-WES-01A U.S. EPA Monitoring Well

 >1000 ug/L

 >100 ug/L

>70 ug/L

>5 ug/L

A Monitoring Well

LEGEND

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2
5/14/2013	MMW-1S				
PCE	378				
TCE	17.1				
cis-1,2-DCE	8.1				
trans-1,2-DCE	<5.0				

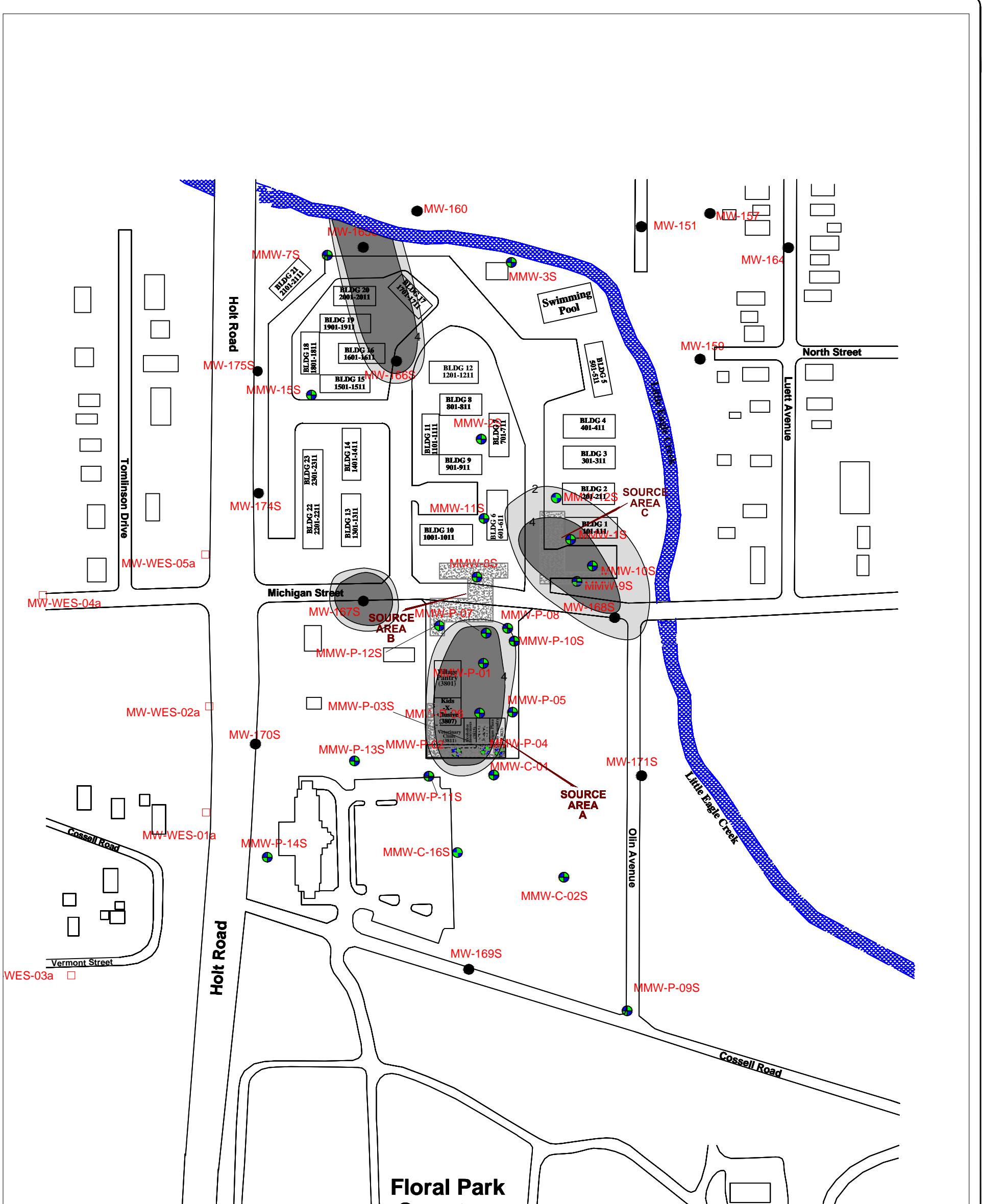
All Values Over IDEM RISC Industrial Default Cleanup Levels in R
All Values Over IDEM RISC Residential Default Cleanup Levels in 20
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/l = micrograms per liter
NS = Not Sampled

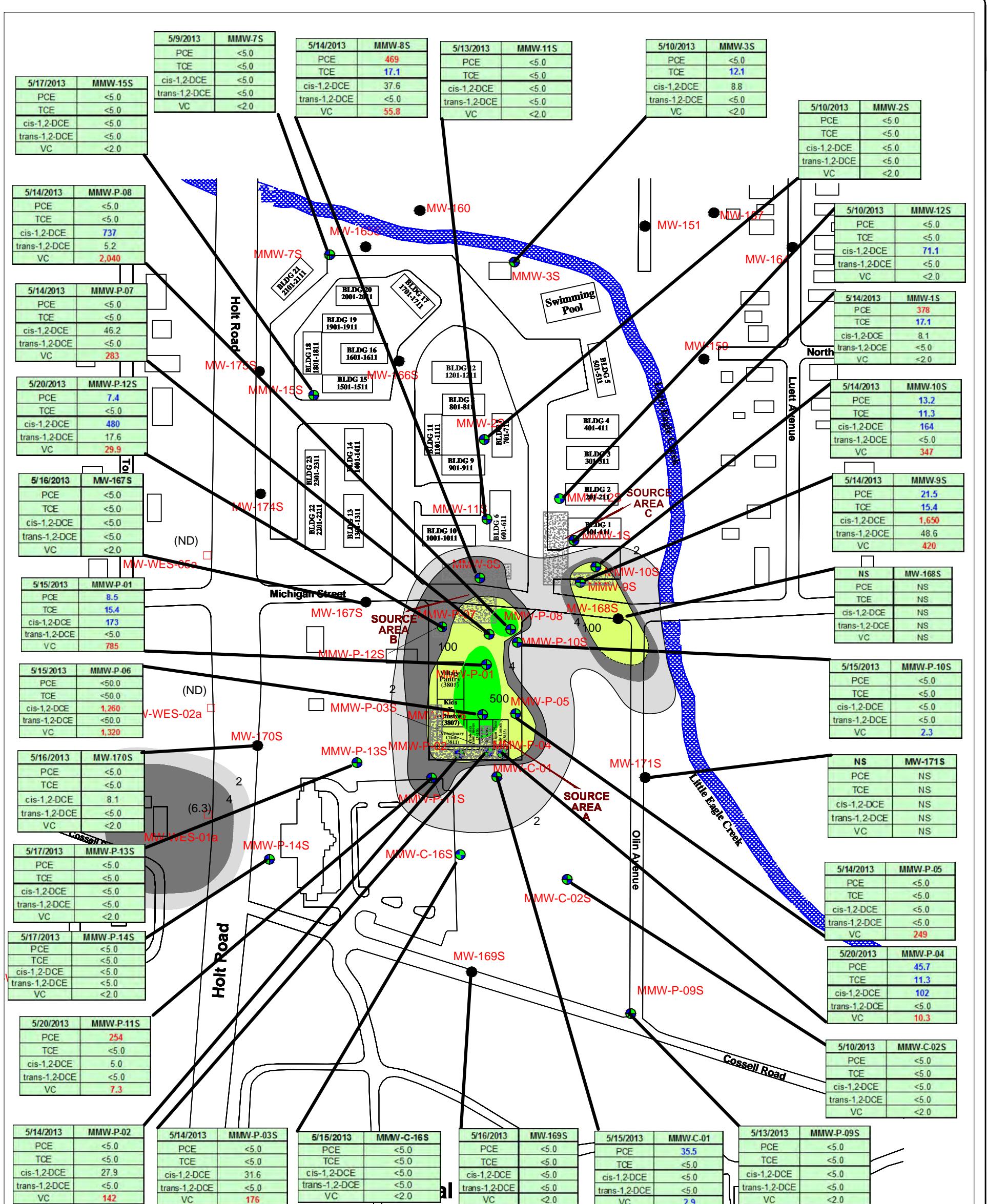
Note: Data for MW-165S and MW-166S based on ENVIRON Oct 2012 sample data, and MW-174S and MW-175S based on ENVIRON Sept 2011 sample data (ENVIRON January 2013 Remedial Progress Report).

Data for EPA wells based on Dec 2011 sample data summarized in Weston 2013 Technical Memorandum

**CIS 1,2-DCE IN GROUNDWATER ANALYTICAL MAP
SHALLOW - 2ND QUARTER 2013**





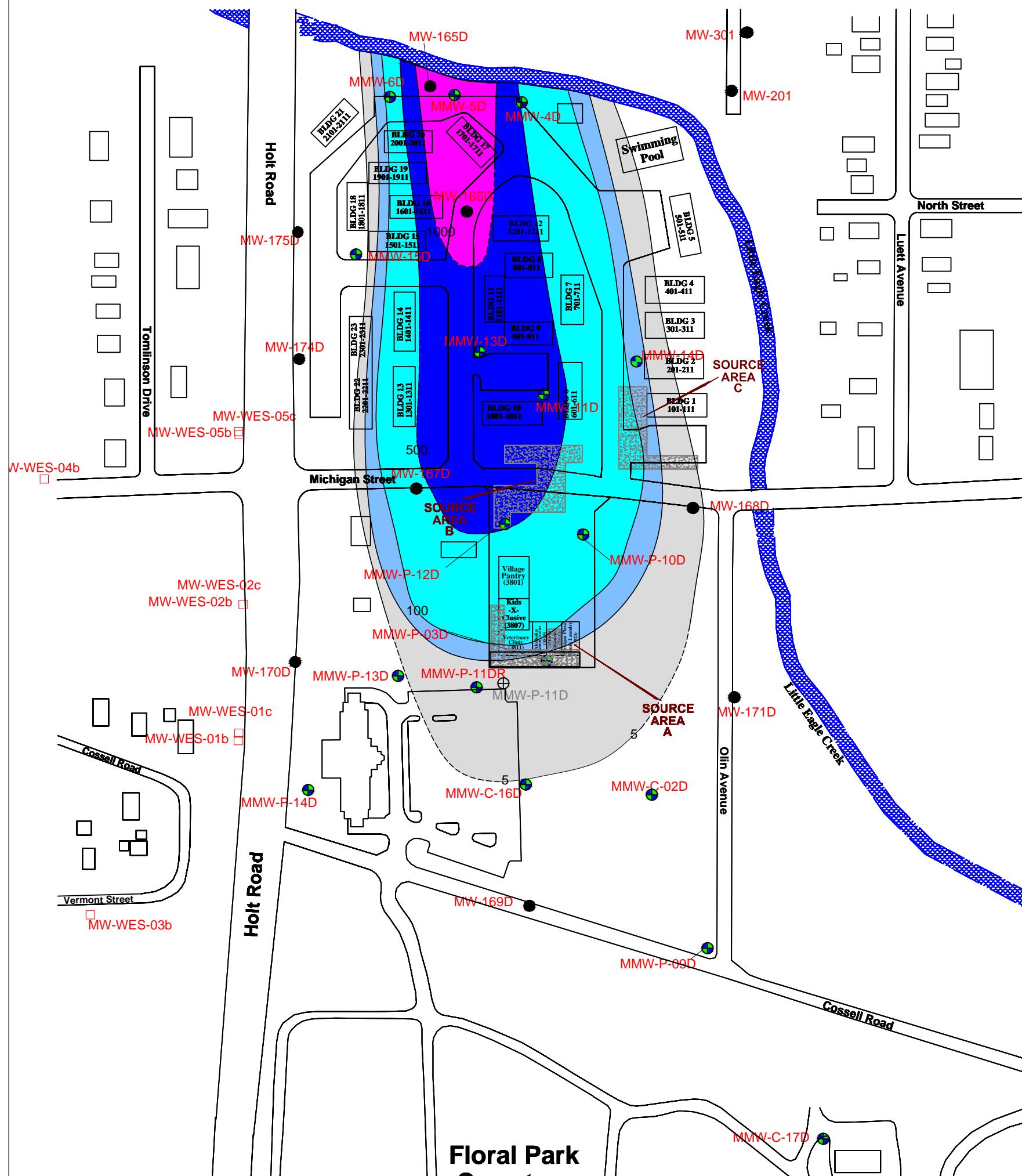


MMW-P-06 (Green circle) MUNDELL Monitoring Well
 MW-160 (Black dot) ENVIRON Monitoring Well
 MW-WES-01A (Red square) U.S. EPA Monitoring Well
 >400 ug/L (Green box)
 >100 ug/L (Yellow box)
 >4 ug/L (Grey box)
 >2 ug/L (Light Grey box)
 NS = Not Sampled

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chlorides
5/14/2013 MMW-1S	378	17.1	8.1	<5.0	
PCE	<5.0				
TCE	<5.0				
cis-1,2-DCE	<5.0				
trans-1,2-DCE	<5.0				
VC	<2.0				

VC IN GROUNDWATER ANALYTICAL MAP - SHALLOW - 2ND QUARTER 2013
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
31h



MMW-P-09D ● MUNDELL Monitoring Well

LEGEND

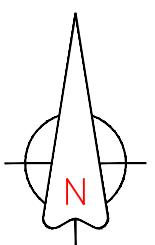
MW-169D ● ENVIRON Monitoring Well

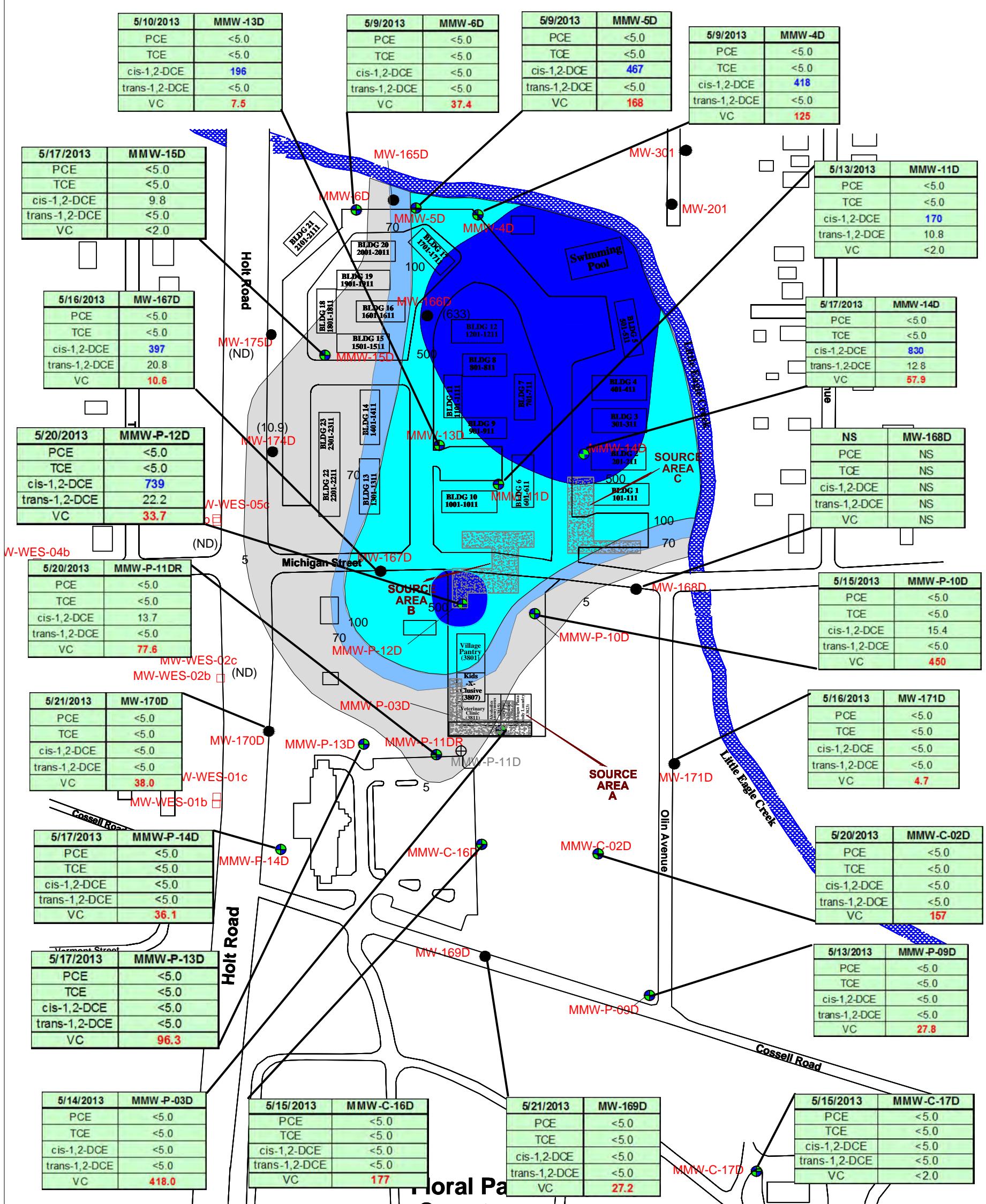
MW-WES-05C □ U.S. EPA Monitoring Well

- >1000 ug/L
- >500 ug/L
- >100 ug/L
- >70 ug/L
- >5 ug/L

Note: Contours based on available groundwater data associated with 2005 FSI activities.

0 SCALE 200 feet

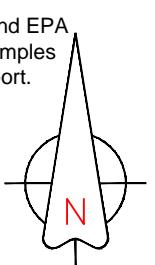




LEGEND

Note: Data for MW-166D from Oct 2012 sample summarized in ENVIRON 2013 report.

Data for MW-174D, MW-175D and EPA wells referenced to Dec 2011 samples summarized in Weston 2013 report.



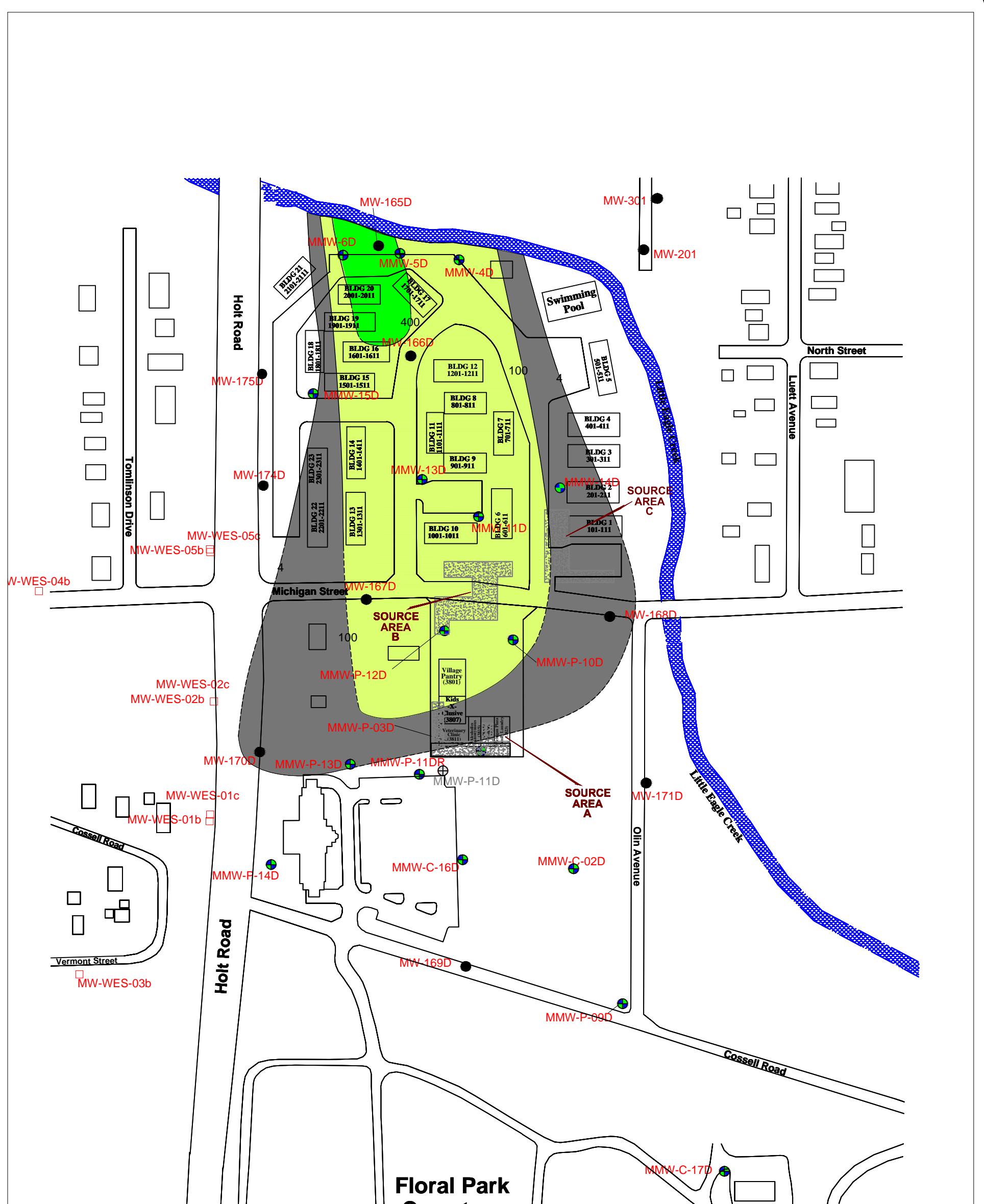
0 SCALE 200 feet

CIS 1,2-DCE IN GROUNDWATER ANALYTICAL MAP

DEEP - 2ND QUARTER 2013

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
31j



MMW-P-09D ● MUNDELL Monitoring Well

LEGEND

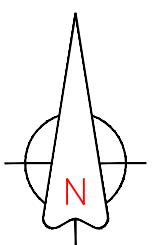
MW-169D ● ENVIRON Monitoring Well

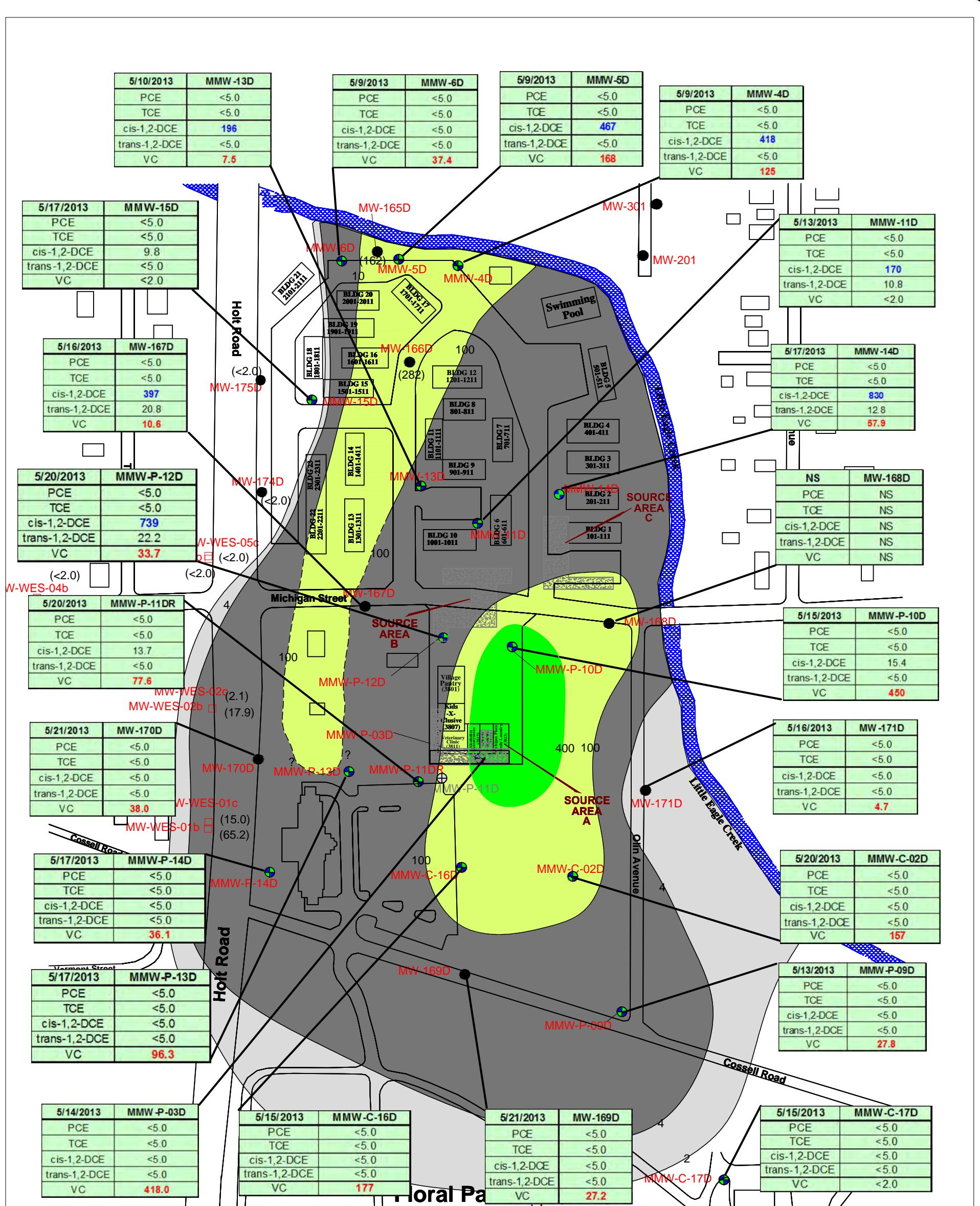
MW-WES-05C □ U.S. EPA Monitoring Well

- >400 ug/L
- >100 ug/L
- >4 ug/L
- >2 ug/L

Note: Contours based on available groundwater data associated with 2005 FSI activities.

0 SCALE 200 feet





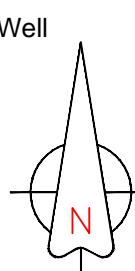
MMW-P-09D MIUNDELL Monitoring Well

MW-169D ● ENVIRON Monitoring Well

MW-WES-05C U.S. EPA Monitoring Well

- █ >400 ug/L
- █ >100 ug/L
- █ >4 ug/L
- █ >2 ug/L

NS – Not Sampled



LEGEND

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial	57	17	1,000	7,000	4

Cleanup Level	\$8	\$1	\$1,000	\$2,000	\$4
IDEML RISC Default Residential Cleanup Level:	5	5	70	100	2
IDEML 2012 RCC-Tan Residential					

ANNUAL STATEMENT OF IDEM PROBLEMS AND DEFICIENCIES

All Values Over IDEM RISC Industrial Default Cleanup Levels in Red
All Values Over IDEM RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level in Blue

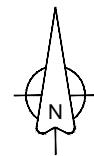
All Values Over IDEM RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level in Blue
PCE = Tetrachloroethene
TCE = Trichloroethene

TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene

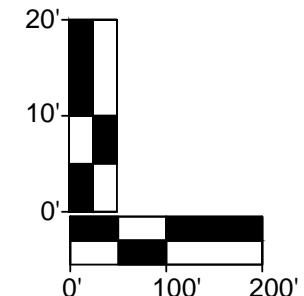
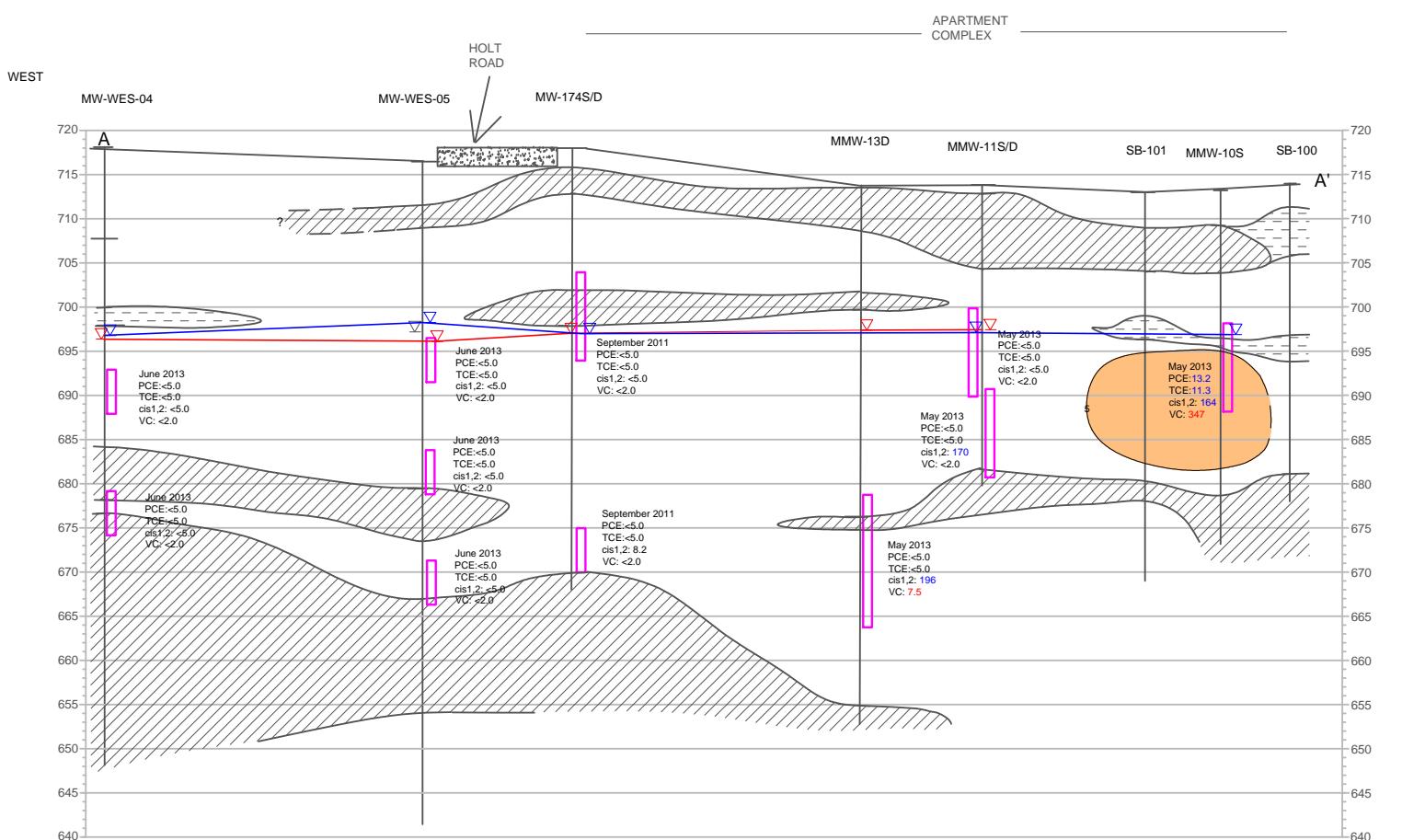
trans-1,2-DCE = trans-1,2-Dichloroethylene
ug/l = micrograms per liter
NS = Not Sampled

NS = Not Sampled
All analytical results presented in micrograms per liter (ug/l)



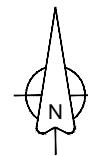
LEGEND

	Sand
	Clay
	Silt
	Shale (Bedrock)
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (intermediate EPA well if present)
	Static Water Level 11/12/2012 (Deep)
	>55 ug/L >5 ug/L



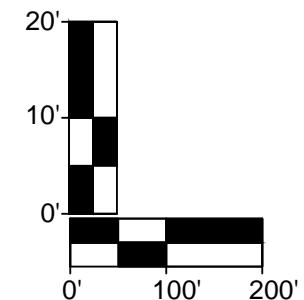
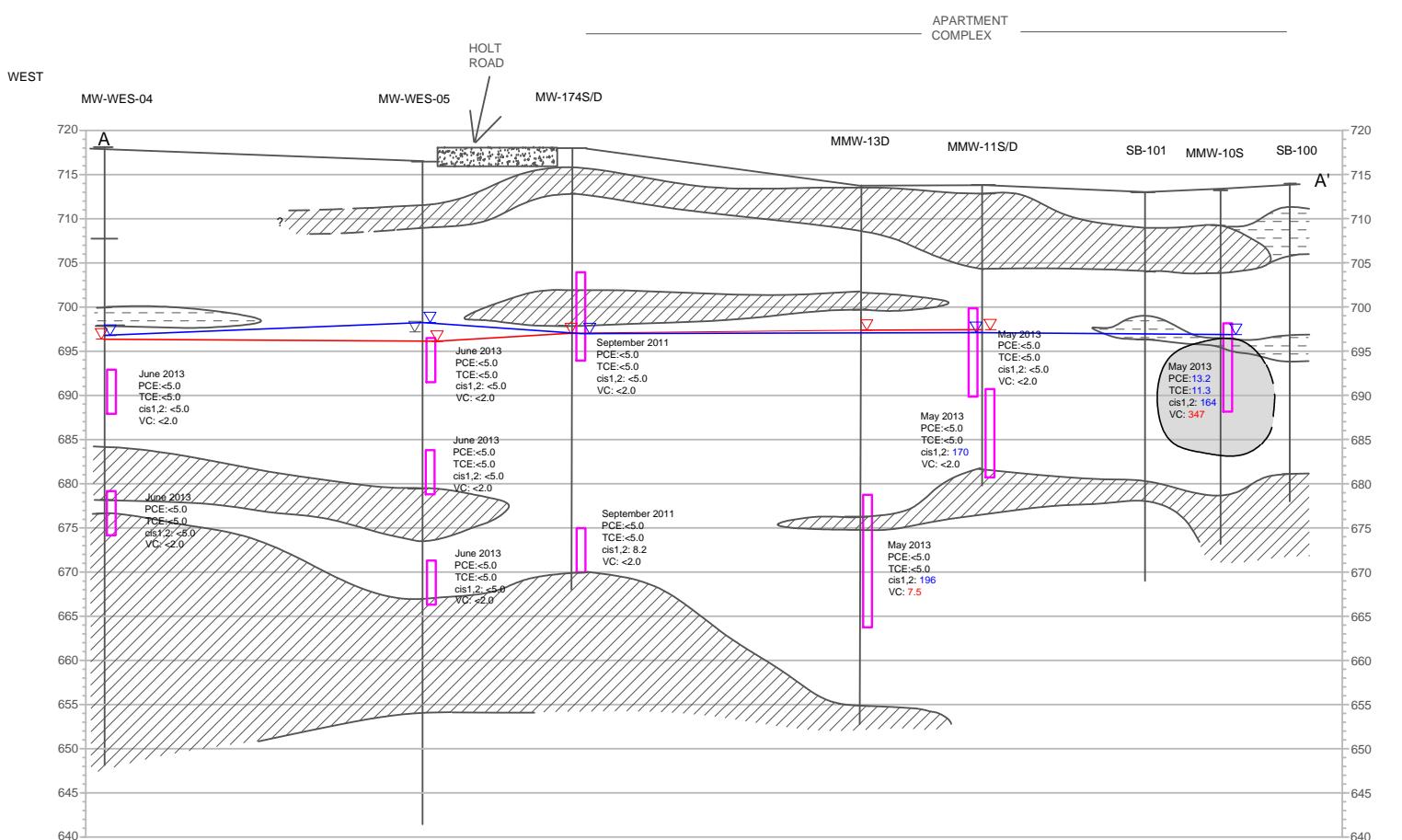
**GEOLOGIC CROSS-SECTION A - A' -
PCE IN GROUNDWATER**
MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

**FIGURE
31m**



LEGEND

	Sand
	Clay
	Silt
	Shale (Bedrock)
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (intermediate EPA well if present)
	Static Water Level 11/12/2012 (Deep)
	>5 ug/L

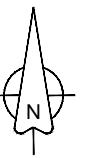


Vertical Exaggeration = 10X

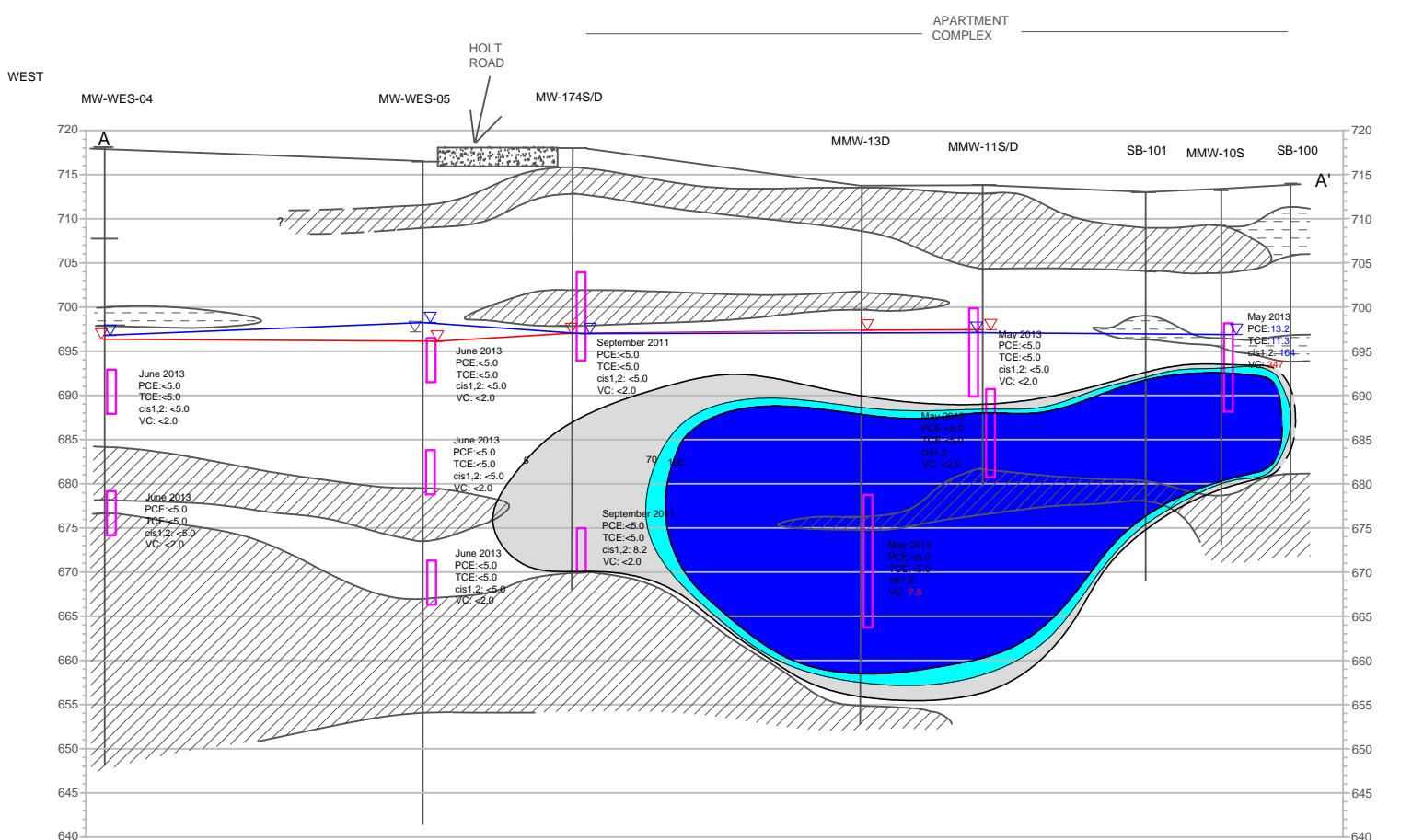
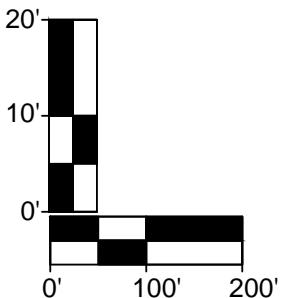
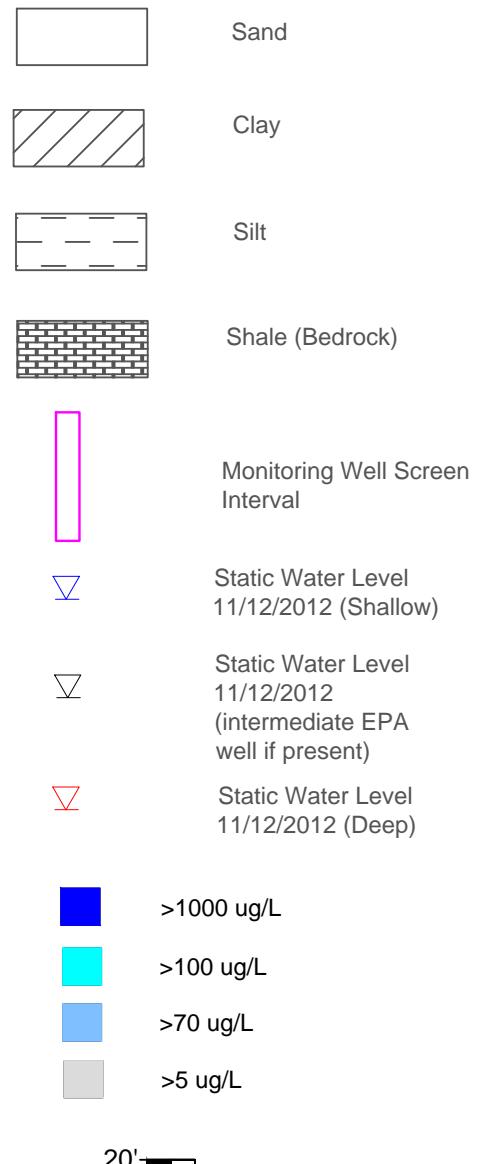
GEOLOGIC CROSS-SECTION A - A' - TCE IN GROUNDWATER
MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

FIGURE
31n

REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg	DRAWING:	PLOT SIZE: 11"X17"
							DRAFTED BY: MB	DATE: 09/11/2013
							CHECKED BY: MB	DATE: 09/11/2013
							APPROVED BY: JAM	DATE: 09/11/2013



LEGEND

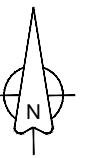


**GEOLOGIC CROSS-SECTION A - A' -
CIS 1,2-DCE IN GROUNDWATER**

MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

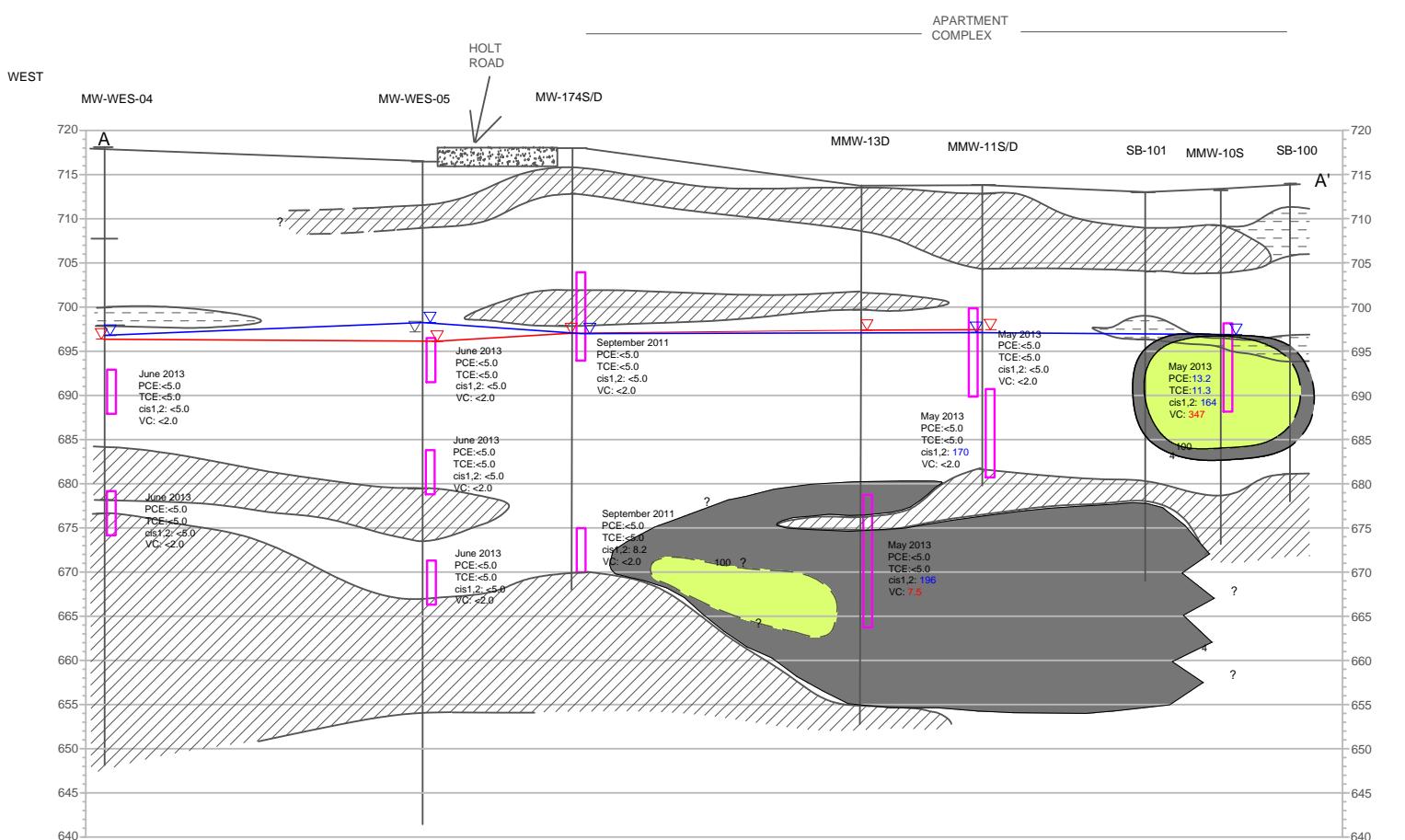
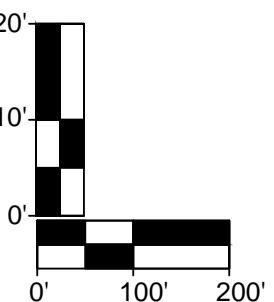
**FIGURE
310**

REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg
					DRAWING:	PLOT SIZE: 11"X17"
					DRAFTED BY: MB	DATE: 09/11/2013
					CHECKED BY: MB	DATE: 09/11/2013
					APPROVED BY: JAM	DATE: 09/11/2013



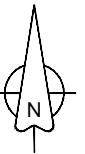
LEGEND

	Sand
	Clay
	Silt
	Shale (Bedrock)
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (intermediate EPA well if present)
	Static Water Level 11/12/2012 (Deep)
	>400 ug/L >100 ug/L >4 ug/L



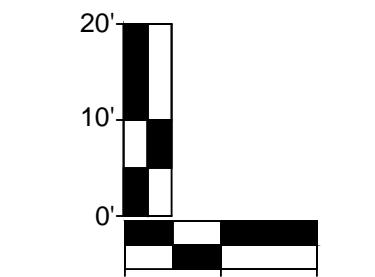
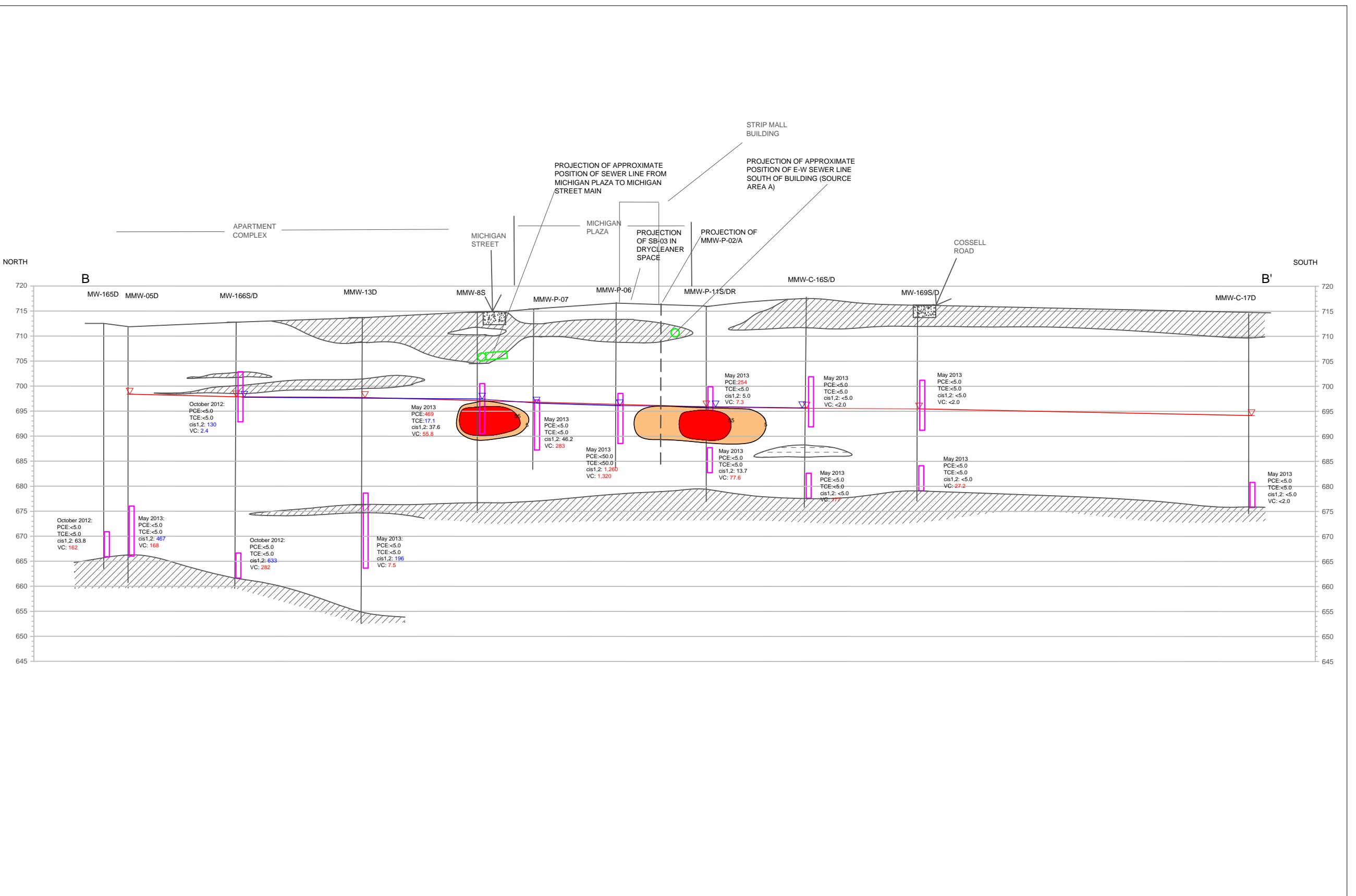
GEOLOGIC CROSS-SECTION A - A'
VC IN GROUNDWATER
MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg
					DRAWING:	PLOT SIZE: 11"X17"
					DRAFTED BY: MB	DATE: 09/11/2013
					CHECKED BY: MB	DATE: 09/11/2013
					APPROVED BY: JAM	DATE: 09/11/2013



LEGEND

	Sand
	Clay
	Silt
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (Deep)
	>55 ug/L >5 ug/L



Vertical Exaggeration = 10X

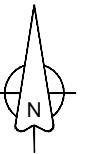
REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg	GEOLOGIC CROSS-SECTION B - B' - PCE IN GROUNDWATER	FIGURE
					DRAWING:	PLOT SIZE: 11"X17"		
					DRAFTED BY: MB	DATE: 09/11/2013		
					CHECKED BY: MB	DATE: 09/11/2013		
					APPROVED BY: JAM	DATE: 09/11/2013		

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MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

31q



LEGEND

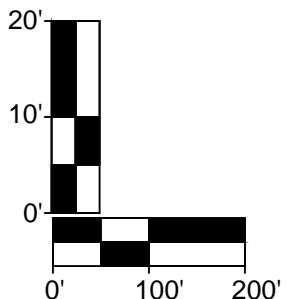
	Sand
	Clay
	Silt

Monitoring Well Screen Interval

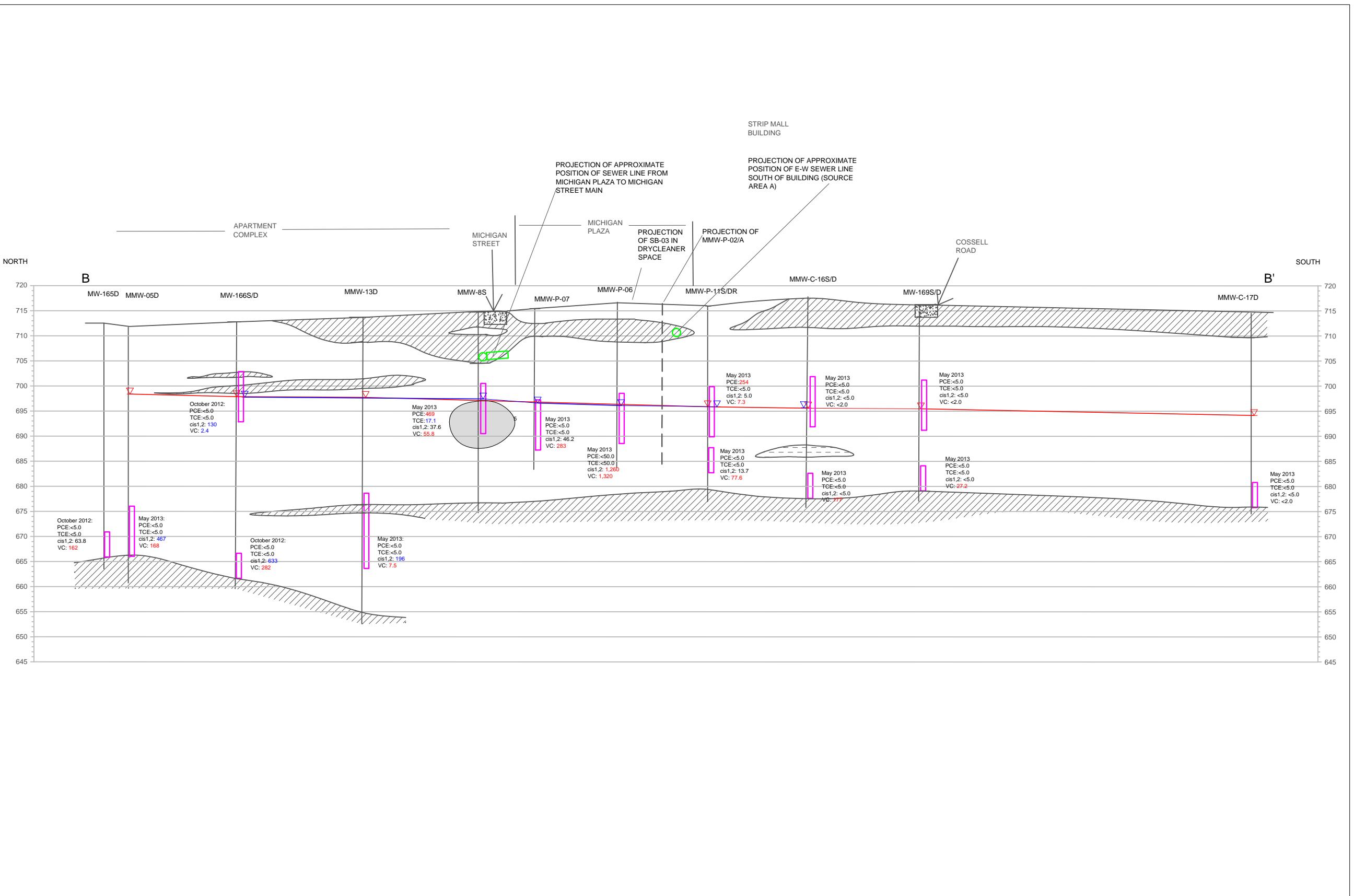
Static Water Level
11/12/2012 (Shallow)

Static Water Level
11/12/2012 (Deep)

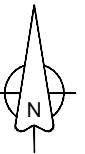
>5 ug/L



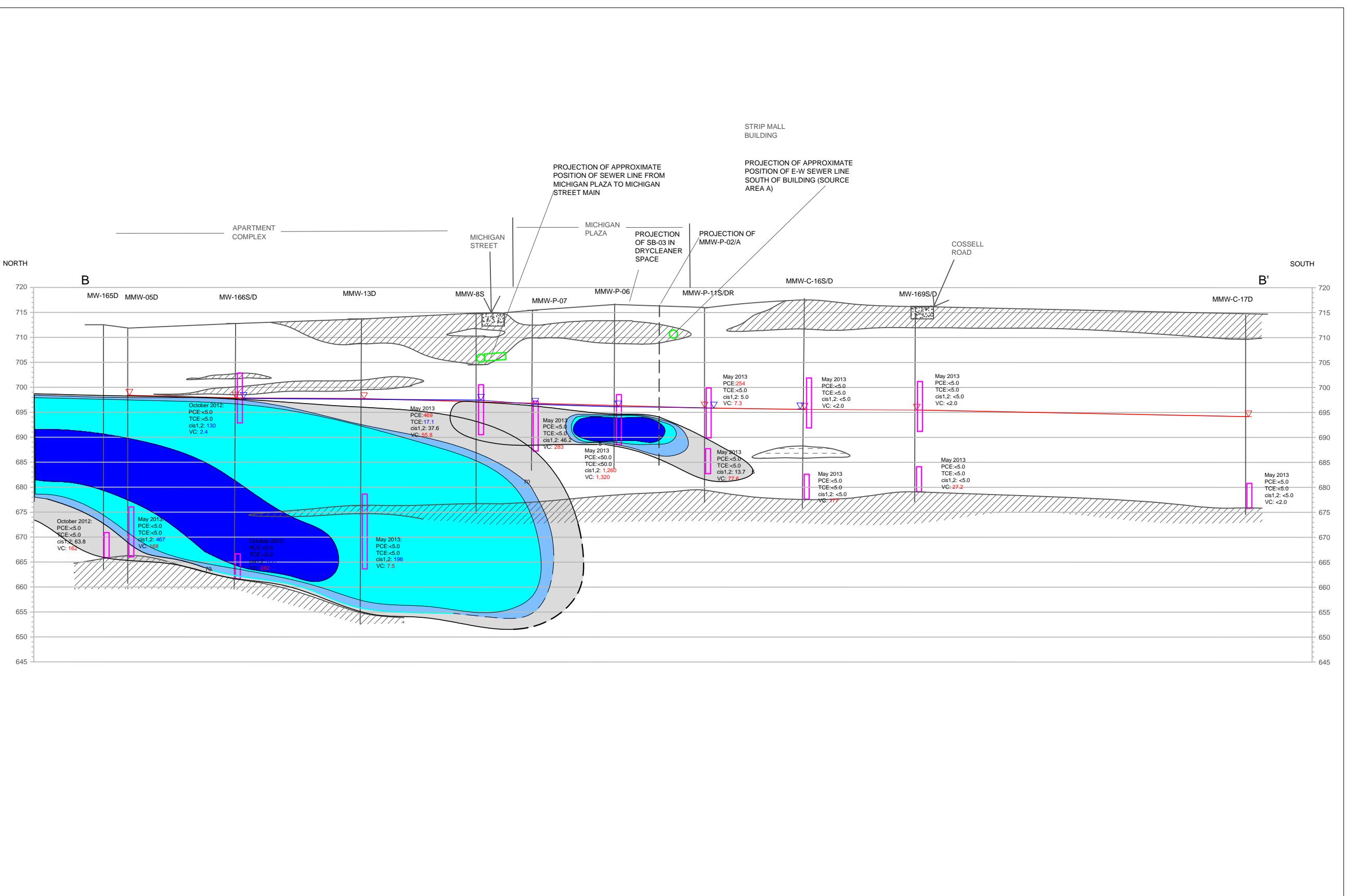
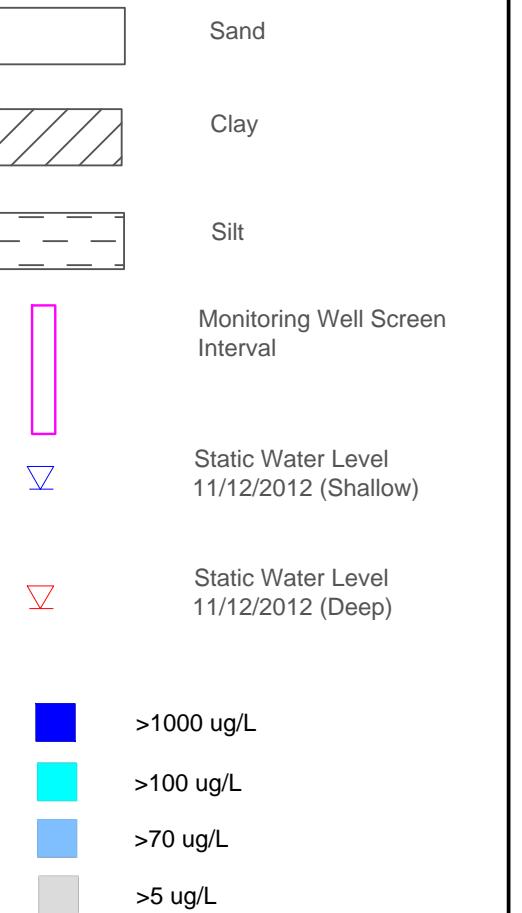
Vertical Exaggeration = 10X

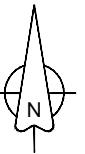


REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg
					DRAWING:	PLOT SIZE: 11"X17"
					DRAFTED BY: MB	DATE: 09/11/2013
					CHECKED BY: MB	DATE: 09/11/2013
					APPROVED BY: JAM	DATE: 09/11/2013



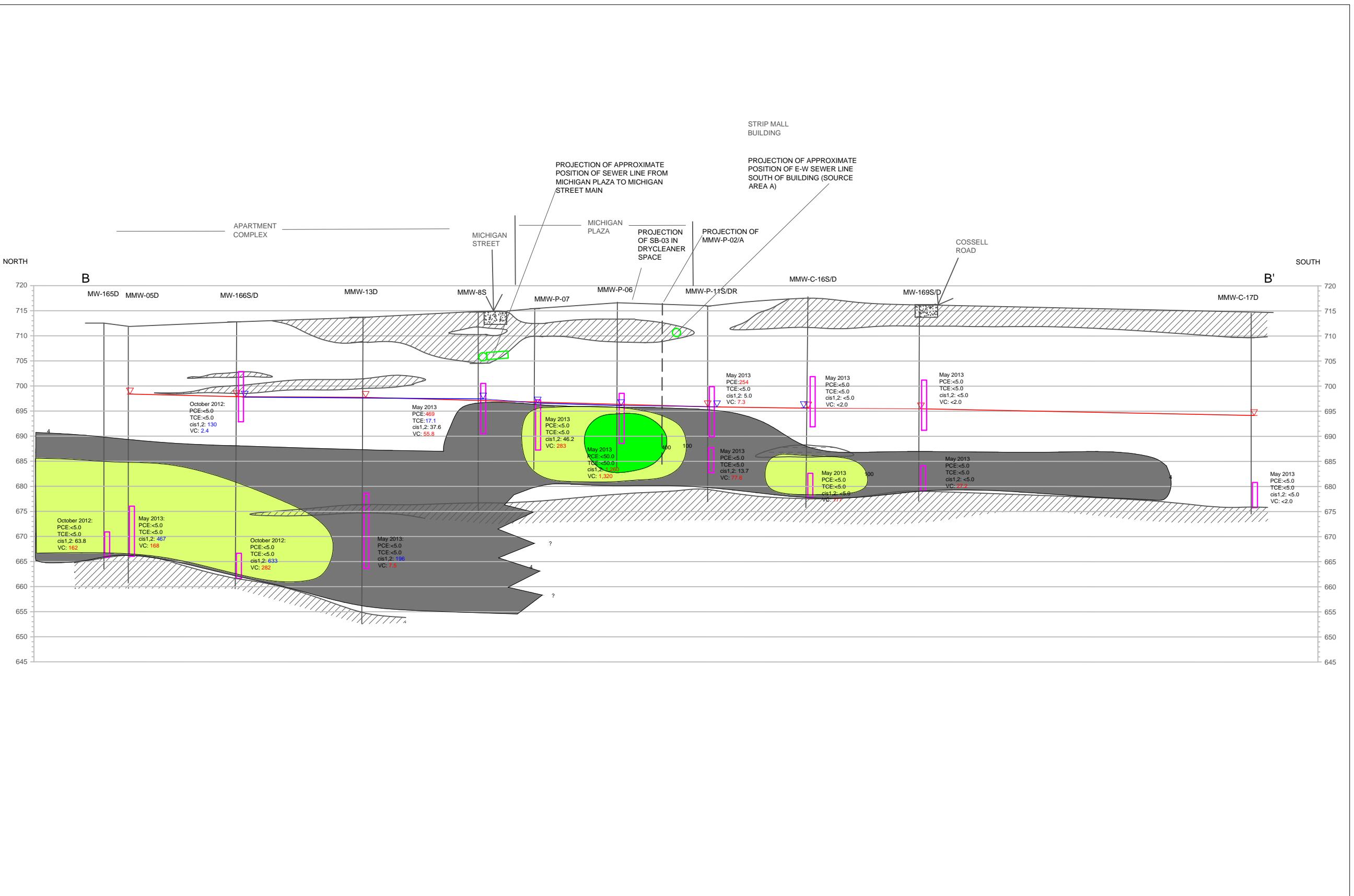
LEGEND





LEGEND

	Sand
	Clay
	Silt
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (Deep)
	>400 ug/L >100 ug/L >4 ug/L



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REV.	DATE	DESCRIPTION	BY	APPR

PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg
DRAWING:	PLOT SIZE: 11"X17"
DRAFTED BY: MB	DATE: 09/17/2013
CHECKED BY: MB	DATE: 09/17/2013
APPROVED BY: JAM	DATE: 09/17/2013

GEOLOGIC CROSS-SECTION B - B' - VC IN GROUNDWATER

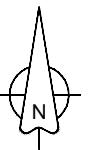
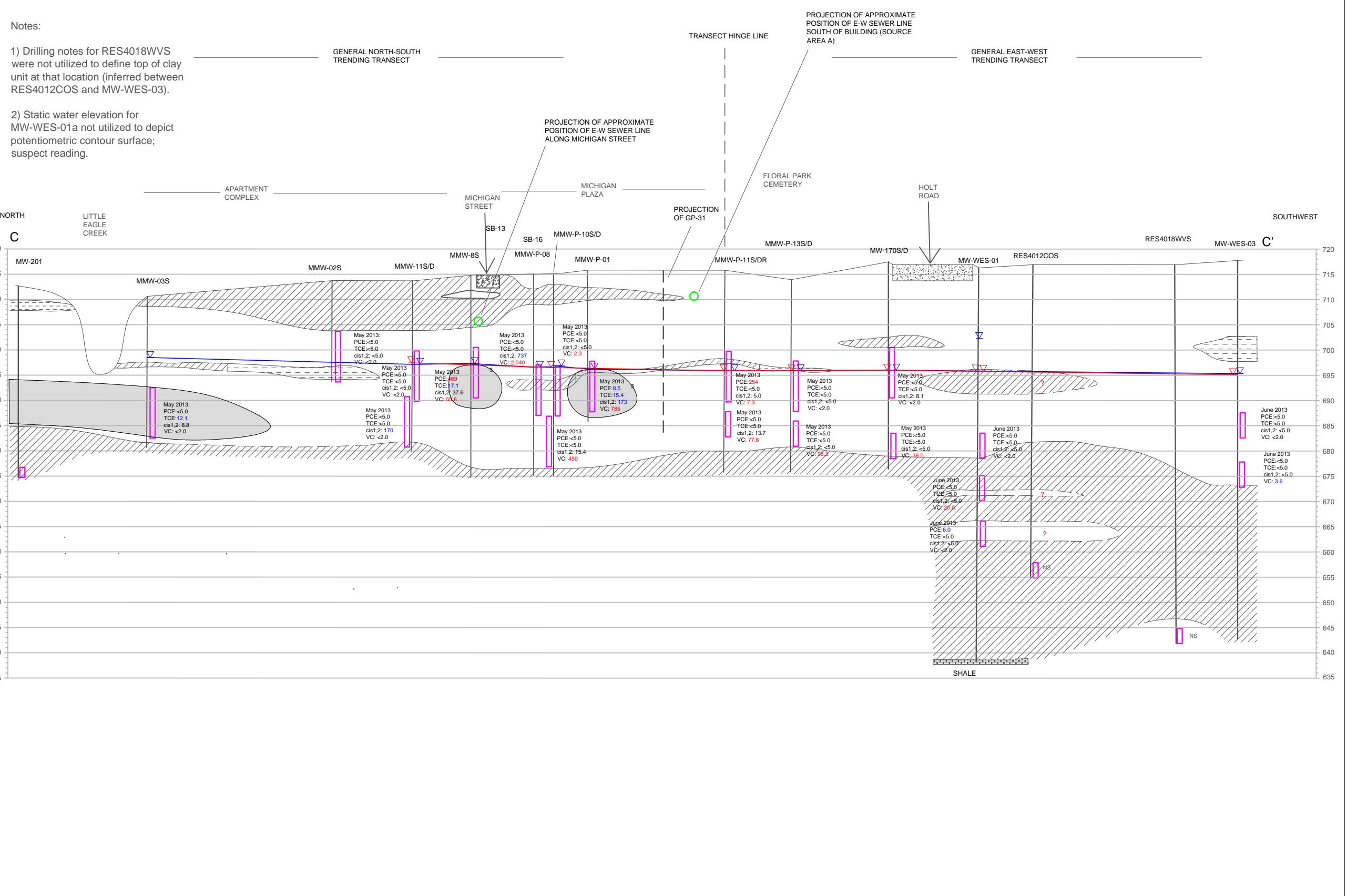
MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

FIGURE
31t

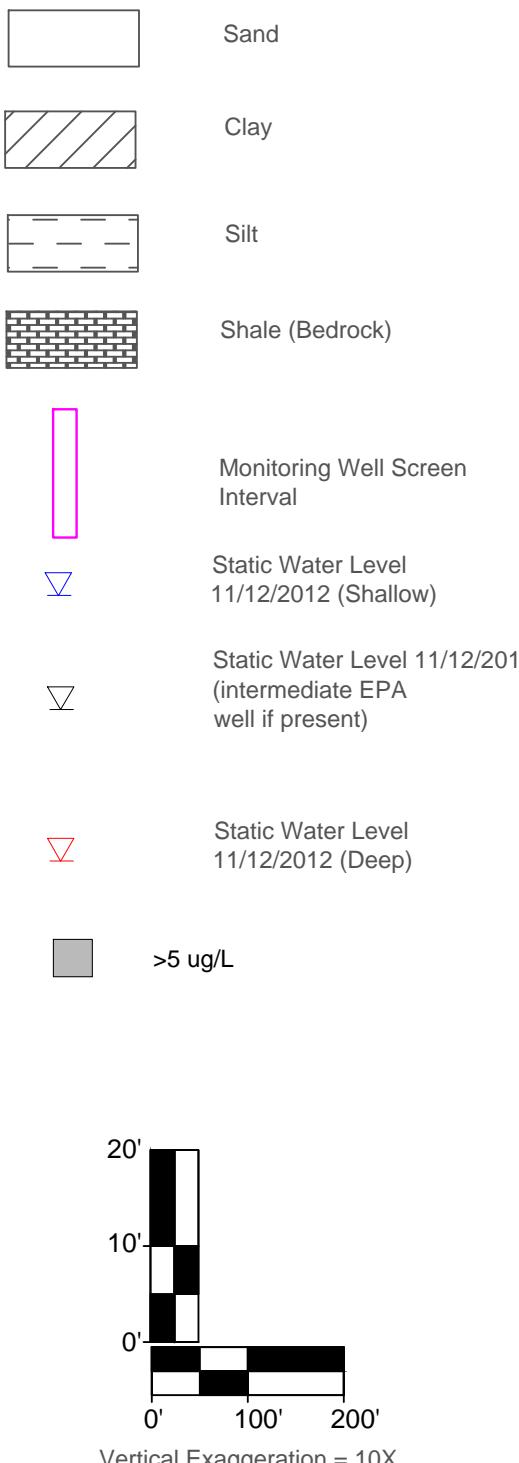
Notes:

1) Drilling notes for RES4018WVS were not utilized to define top of clay unit at that location (inferred between RES4012COS and MW-WES-03).

2) Static water elevation for MW-WES-01a not utilized to depict potentiometric contour surface; suspect reading.



LEGEND



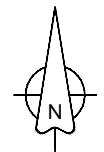
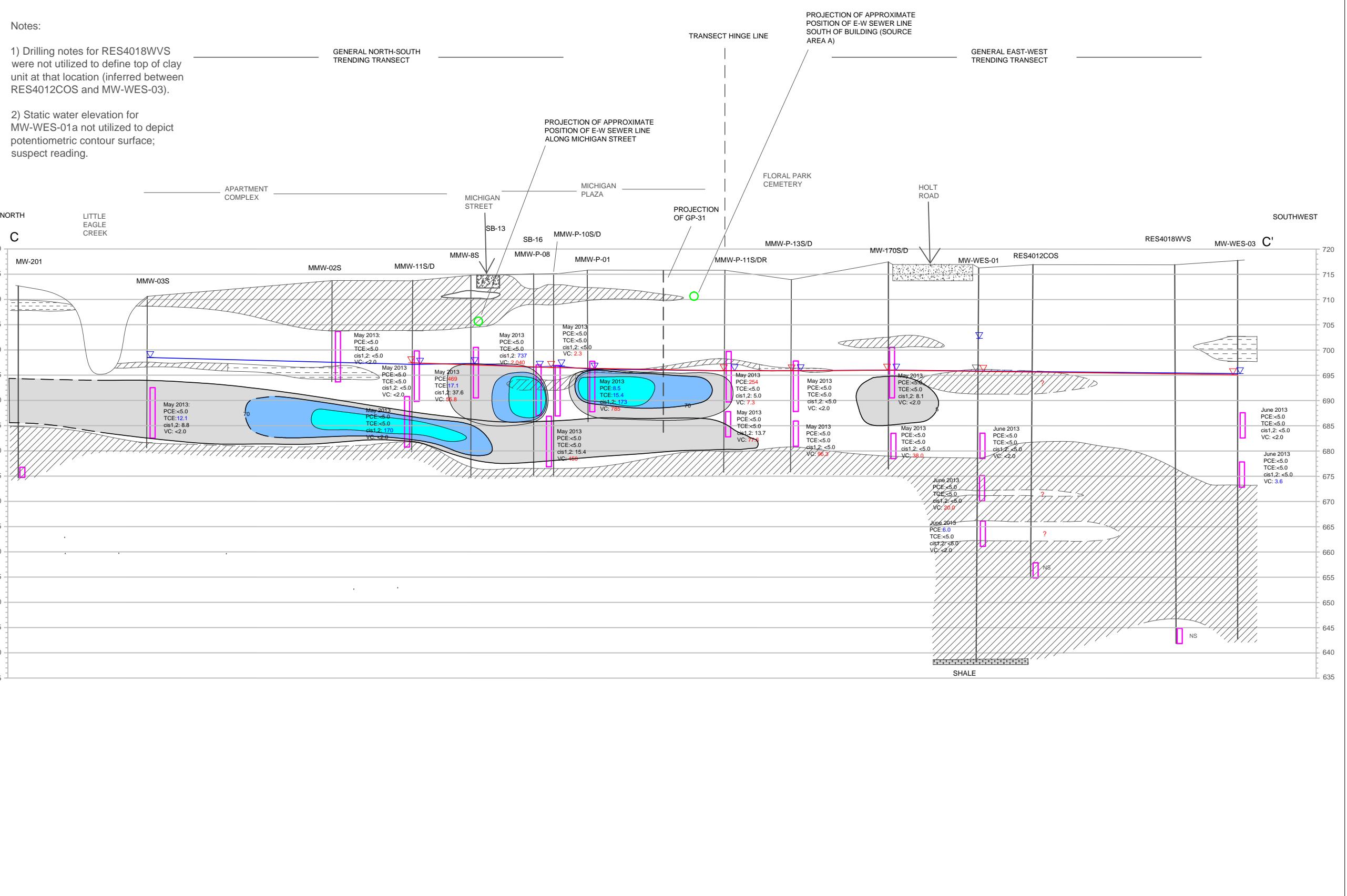
Vertical Exaggeration = 10X

	REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg	PLOT SIZE: 11"X17"	GEOLOGIC CROSS-SECTION C - C' - TCE IN GROUNDWATER	FIGURE 31v
						DRAWING:				
						DRAFTED BY: MB	DATE: 09/11/2013			
						CHECKED BY: MB	DATE: 09/11/2013			
						APPROVED BY: JAM	DATE: 09/11/2013			

Notes:

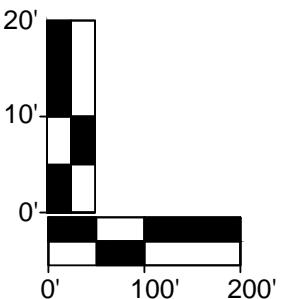
1) Drilling notes for RES4018WVS were not utilized to define top of clay unit at that location (inferred between RES4012COS and MW-WES-03).

2) Static water elevation for MW-WES-01a not utilized to depict potentiometric contour surface; suspect reading.



LEGEND

	Sand
	Clay
	Silt
	Shale (Bedrock)
	Monitoring Well Screen Interval
	Static Water Level 11/12/2012 (Shallow)
	Static Water Level 11/12/2012 (intermediate EPA well if present)
	Static Water Level 11/12/2012 (Deep)
	>1000 ug/L >100 ug/L >70 ug/L >5 ug/L



Vertical Exaggeration = 10X

GEOLOGIC CROSS-SECTION C - C' - CIS 1,2-DCE IN GROUNDWATER
MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

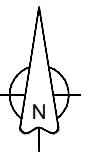
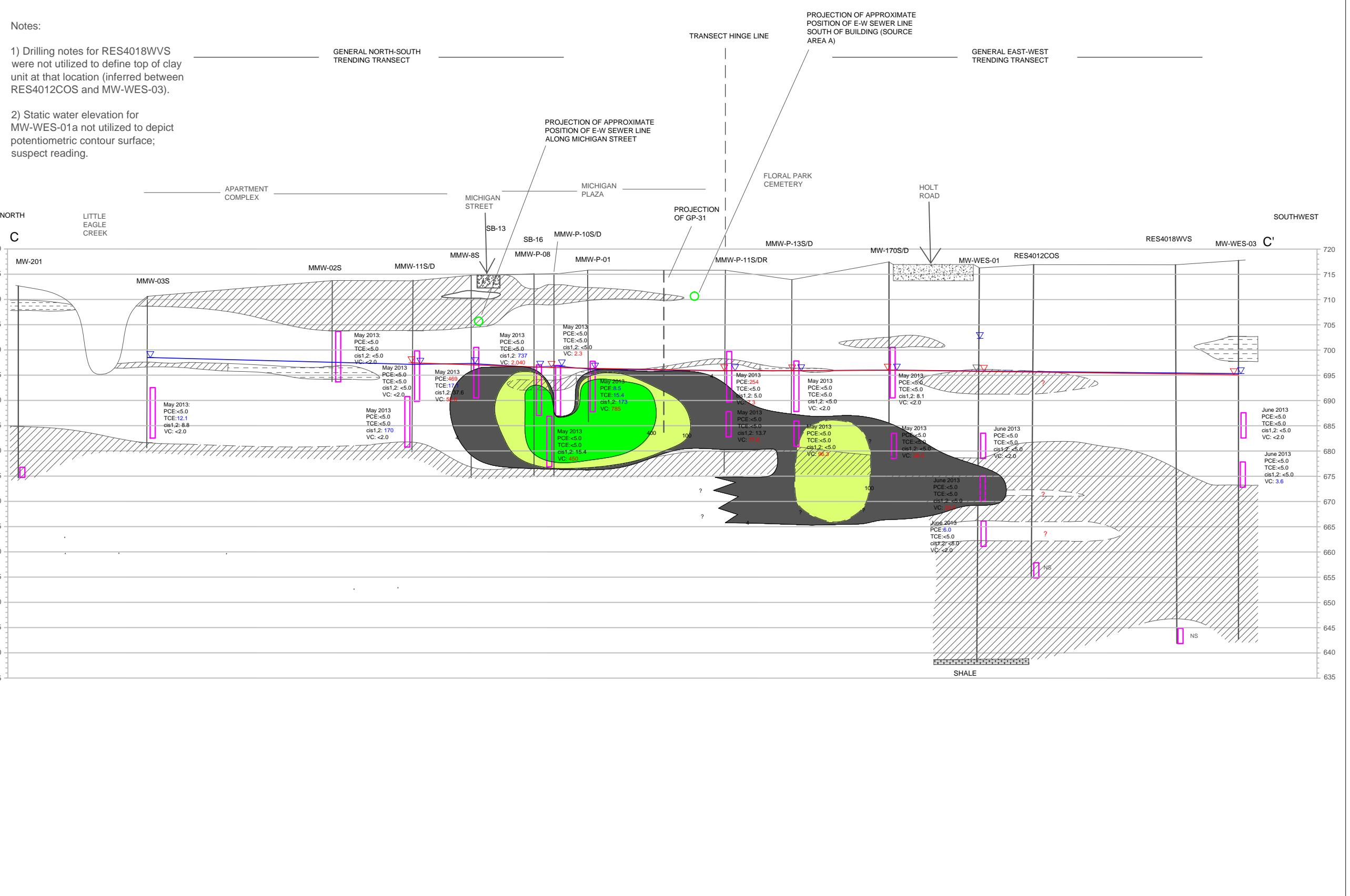
FIGURE
31w

REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg	DRAWING:	PLOT SIZE: 11"X17"
							DRAFTED BY: MB	DATE: 09/11/2013
							CHECKED BY: MB	DATE: 09/11/2013
							APPROVED BY: JAM	DATE: 09/11/2013

Notes:

1) Drilling notes for RES4018WVS were not utilized to define top of clay unit at that location (inferred between RES4012COS and MW-WES-03).

2) Static water elevation for MW-WES-01a not utilized to depict potentiometric contour surface; suspect reading.



LEGEND

Sand

Clay

Silt

Shale (Bedrock)

Monitoring Well Screen Interval

Static Water Level 11/12/2012 (Shallow)

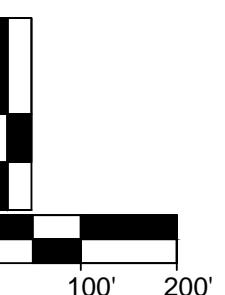
Static Water Level 11/12/2012 (intermediate EPA well if present)

Static Water Level 11/12/2012 (Deep)

>400 ug/L

>100 ug/L

>4 ug/L



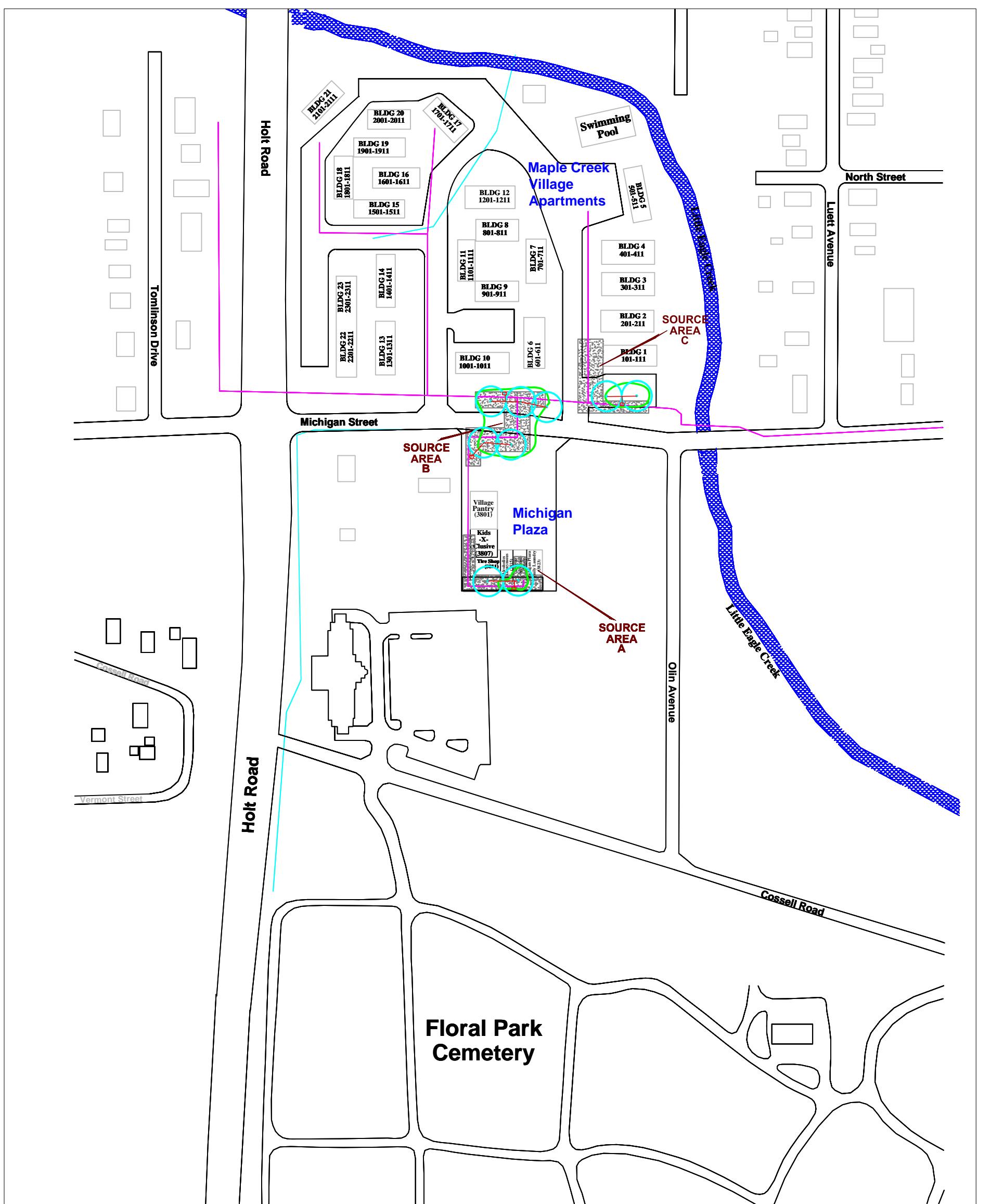
Vertical Exaggeration = 10X

GEOLOGIC CROSS-SECTION C - C'
VC IN GROUNDWATER

MICHIGAN PLAZA
3801 - 3823 MICHIGAN STREET
INDIANAPOLIS, INDIANA

FIGURE
31x

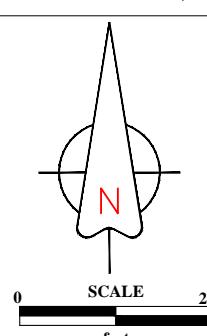
REV.	DATE	DESCRIPTION	BY	APPR	PROJECT NO.: M01046	FILE NO.: Cross-Sections.dwg	DRAWING:	PLOT SIZE: 11"X17"
							DRAFTED BY: MB	DATE: 09/11/2013
							CHECKED BY: MB	DATE: 09/11/2013
							APPROVED BY: JAM	DATE: 09/11/2013



LEGEND

- Proposed SVE Extraction Well
- Proposed SVE Conveyance Line
- Conveyance Line Vault

- Sanitary Sewer
- Storm Sewer
- RCG Exceedance (Vadose Soil)



ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002

Project Number:	M01046
Drawing File:	2013 RWP
Date Prepared:	7-31-2013
Scale:	1"=200'

PROPOSED SVE SYSTEM LAYOUT

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
32